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JAMES L. FISHER President

# GENERAL COURSE REQUIREMENTS OF ALL STUDENTS

The general college requirements went into effect in September 1974, and affect all incoming freshmen and transfer students. However, Towson State College returning students have the option of remaining on the plans under which they were admitted providing no more than seven years has lapsed since initial admission or electing to follow the new plan.

All students are reminded that the adoption of a new set of General College Requirements does not change their departmental requirements, or the requirements for State Certification of teacher education students. Students should consult their advisors if they have any questions regarding their degree programs.

Group I

Art, Communication Arts and Sciences, English\*, Modern Languages (the first semester of any elementary course cannot be used). Music, Philosophy and Religion, Theatre Arts (at least two courses must be taken in English; courses must be completed in at least four different disciplines).

Number of One-Semester Courses 6

Group II

Biological Sciences, Chemistry, Mathematics, (including Computer Science) Physics, Psychology (courses must be completed in at least three different disciplines).

Number of One-Semester Courses 3

Group III

Anthropology, Economics, Geography, History, Political Science, and Sociology (courses must be completed in at least three different disciplines).

Number of One-Semester Courses 4

Group IV

Health Science, Physical Education (at least one course must be in Physical Education).

Number of One-Semester Courses 2

- \* English 30.102, Freshman Composition (or equivalent) must be completed with a grade of "C" or higher to meet graduation requirements.
- \*\* At least one hour of credit in each course must be earned.

OPTIONAL GENERAL COLLEGE REQUIREMENTS PLANS

- A. Optional general college requirement plans are permissible under certain circumstances when approved by the Curriculum Committee. Additional information available in the Office of the Registrar.
- B. Transfer students with 56 credits or more at the time of admission will be given credit for having met the general requirements of the College provided all of the following conditions are met:
  - 1. The student transfers from the sending institution with a minimum of 39 semester hours credit, or 15 one-semester courses, in the Arts and Sciences.
  - 2. Courses are taken in a minimum of 10 of the following disciplines.

Art
Communications Arts
and Sciences
English
Modern Languages
Music
Philosophy/
Religion
Theatre Arts
Biological Sciences
Chemistry

Mathematics
Physics
Psychology
Anthropology
Economics
Geography
History
Political Science
Sociology
Health Science
Physical Education



3. With reference to Towson's General Course Requirements of all students see page 33. Courses were taken in two disciplines each in Groups I, II, and III, and one course in Group IV.

Transfer students who have not completed the general college requirements under this option at the time transfer is made will be required to comply with the general requirements for native students at Towson State College.

#### **ATTENDANCE**

Students are expected to attend all classes. Each faculty member sets his own policy on absences. Policies vary and it is the responsibility of the student to understand clearly the absence policy of each instructor and to act accordingly. Students are expected to notify the Health Center by phone or in writing of any absence exceeding three days.

# LENGTH OF **ATTENDANCE**

Only in unusual cases may a student who has completed degree requirements remain in the College for longer than eight semesters. Any requests for deviation from this plan must be submitted to the secretary of the Committee on Academic Standards.

# WITHDRAWALS

A student wishing to withdraw from the College is to obtain a withdrawal card from the Office of the Dean of Students. Before the withdrawal is official, the student must submit the completed withdrawal card to the Office of the Registrar.

# SEMESTER OF STUDY

Each semester a student registers and has not cancelled or withdrawn prior to the first day of class counts as a semester of study.

Withdrawal for medical reasons or entry into the Armed Forces will not count as a semester of study. The student must inform the Registrar upon readmission in such cases and present evidence of reason for withdrawal.

Those students withdrawing from the College who intend to return must comply with the deadlines established for readmission -15 July for the fall semester and 15 November for the spring semester.

# TRANSCRIPTS OF ACADEMIC RECORD

Transcripts will be sent only upon written request of the student. Transcript request forms may be obtained at the Office of the Registrar. The College requires at least two weeks notice for issuance of a transcript record. A fee of \$2.00 will be assessed for each request.

A student with an outstanding indebtedness to the institution will not be eligible for transcripts of record.

# HONORS **PROGRAMS**

Under the direction of a College Honors Programs Board, a number of departments of the College offer Honors Programs in their disciplines or cooperatively offer interdisciplinary Honors Programs. The student who completes an approved program will receive a diploma with the designation Bachelor of Arts or Bachelor of Science with honors in the appropriate discipline.

The program is developed for the junior and senior years and includes 9 to 12 semester hours credit in seminars, directed readings, and research projects. A senior thesis is required as well as an oral defense of the thesis. A candidate will also be expected to make a respectable showing on the Graduate Record Examination.

To be admitted to the program a student must present a cumu-



# The College

#### **PHILOSOPHY**

The Towson program rests fundamentally on the idea that a liberal education is indispensable for the preservation of a free society. Secondly, it rests on the belief that the means of acquiring special competence should be available at the undergraduate level in a taxassisted multi-purpose college.

These two principles go hand in hand. If it is vital that all students take on the mental habits and values necessary to thoughtful citizenship, it is also important that every student be able to acquire a sense of professional direction. The curriculum is designed, then, so that all students will pursue those studies — the traditional arts and sciences — that promote critical thought about man and his environment; and so that each student may discover and cultivate a particular intellectual or occupational bent.

# **OBJECTIVES**

In order to implement its philosophy, Towson State College seeks to challenge every student:

- 1. To make college life a model community which breeds a sensitivity to the dignity of others and is relevant to the needs of the ongoing society.
- 2. To develop an appreciation of and respect for the inherent wisdom and values of the past through knowledge of the discoveries and art forms of his own and other cultures.
- 3. To use this knowledge selectively and objectively in the search for new knowledge.
- 4. To develop an understanding of himself in relation to others in his community, the nation, and the world.
- 5. To develop the skills necessary to prepare himself to assume the role of a responsible member of the professional, social, and intellectual community.

HISTORY

Towson State College, the oldest and largest of Maryland's public colleges, traces its history back to 1865. At that time the General Assembly of Maryland established a state-wide public school system and authorized the first state teacher training institution, The Maryland State Normal School, later known as the State Teachers College at Towson, and since 1963, Towson State College.

Formally opened in Baltimore on January 15, 1866, the school was then the only institution devoted exclusively to the preparation of teachers for the public schools of Maryland.

The School occupied three different locations in the city of Baltimore before moving to its present suburban location in 1915.

In 1946 the arts and sciences program was introduced at Towson. Beginning as a two-year transfer program, it was extended to a four-year, degree-granting program in 1960.

A graduate program for elementary school teachers leading to the Master of Education degree was inaugurated in 1958.

In 1963 the College was authorized, by action of the Legislature, to expand its offering in the arts and sciences while maintaining a strong program in teacher education and to change its name to Towson State College.

In 1965 the College expanded its graduate program to include offerings for guidance counselors and secondary school teachers.

In 1966 the College completed 100 years of service to the State, having graduated more than 12,000 students during its first century.

#### **ACCREDITATION**

Towson State College is accredited by the Middle States Association of Colleges and Secondary Schools, the Maryland State Board of Education and the National Council for the Accreditation of Teacher Education. The College is a member of the American Council on Education and is approved by the American Association of University Women.

## PRIVACY RIGHTS OF PARENTS AND STUDENTS

Towson State College is in compliance with Section 513 (Protection of the rights and privacy of parents and students) and Section 514 (Protection of pupil rights) of Title V — Education Administration of the Education Amendments of 1974.

## BOARD OF TRUSTEES

The College is governed by a nine-member Board of Trustees—eight members appointed by the Governor for nine-year terms—and the state superintendent of schools, a permanent member, ex officio. This same board also controls the six other state colleges.

# THE CAMPUS AND FACILITIES

The College is situated on a campus of over 324 acres located a mile and one-half beyond the northern border of the city of Baltimore on beautifully rolling wooded grounds.

Within an eight-mile radius of the campus are all the cultural advantages of the city of Baltimore—the Peabody Conservatory of Music and Library, the Enoch Pratt Free Library, the Walters Art Gallery, the Baltimore Museum of Art, and the many theaters and other cultural centers necessary for a well rounded college experience.

Campus buildings and facilities give excellent support to the various College programs. The following are of particular interest:

- 1. Stephens Hall, the original academic building erected in 1915, houses the main public performance auditorium, classrooms, and the departments of mathematics and psychology. This Jacobean building with its clock tower has become a landmark in the Baltimore area.
- 2. The modern five-story Albert S. Cook Library has well-developed holdings in the arts and sciences and teacher education. Towson's long history of teacher education is reflected in the extensive collections of bound volumes, reference works and periodicals in this field as well as substantial holdings in microfilm and microcard. The collections of curriculum materials, text books, tradebooks and audiovisual aids are particularly noteworthy.
- 3. Van Bokkelen Hall contains classrooms and faculty offices for the departments of speech and mass communication arts.
- 4. Linthicum Hall, completed in 1967, is the largest classroom building on campus. It houses the departments of English, modern languages, history, geography, political science, economics, sociology, and business administration.
- 5. Smith Science Hall was first occupied in the fall of 1965. Included in the building are biology, chemistry, physics, and science education offices, classrooms, laboratories, and speech function rooms such as student and faculty work and preparation areas. The Watson-King Planetarium is on the top floor.

- 6. Lida Lee Tall Learning Resources Center, a laboratory school of grades K-6, greatly facilitates field studies of schools and children. The center's program also includes a nursery for fouryear olds and a day-care center.
- 7. Burdick Hall, the health and physical education building completed in 1968, houses three gymnasiums, an olympic size swimming pool, classrooms, and various training and dressing rooms.
- 8. The Media Center is the remodeled former Albert S. Cook Library. It contains the audiovisual communications department and the College Media Services which includes equipment and film rentals, television studios, and graphics and photography services. It is one of the best equipped audiovisual centers in the state.
- 9. The College Center, a three-story building opened in the fall of 1971, provides cultural and recreational activities for the entire campus. Located in the center are the post office, book store, box office, dining areas for private and banquet size groups, bowling alleys, and a billiard room.

For complete information concerning the College Center, please refer to the index.

- 10. The Administration Building, a three-story structure at the corner of Osler Drive and Towsontown Boulevard, opened in 1972. It contains all of the principal administration offices and some faculty offices for nursing and health sciences.
- 11. The Health Center contains on the lower level a foyer and waiting room, offices for the physicians, examination rooms, and physio-therapy equipment. There are nine beds available for in-patient care.
- 12. The General Services Building, opened in the spring of 1970, contains offices and shops for the physical plant department, the Campus Police headquarters, and Central Stores and Receiving.
- 13. Glen Esk, formerly the president's home, is now reserved by the Center for the Development of Human Resources.
- 14. The Residence Halls: A total of 1,200 students are presently living in Newell Hall, Prettyman Hall, Richmond Hall, Scarborough Hall, Ward Hall, West Hall, and the new Residence Tower.
- 15. The new \$6.5-million Fine Arts Building opened in May, 1973, and houses the art, music and theatre arts departments as well as public performance areas and art galleries, studios, laboratories and offices. The concert hall, main stage theatre, and studio theatre are located here, as well as the Center for Asian Arts.

# **FUTURE** DEVELOPMENTS

Located in one of the fastest growing areas of the county, the Towson State College enrollment is increasing rapidly. The College's 1974 enrollment was 7,615 day students and 5,784 evening students including 2,689 graduate students. In addition, over 6,700 students enrolled for two five-week summer sessions.

An optimal enrollment ceiling is under study which may suggest the college level off at 8,500 to 9,000 day time students.

Ground has been broken for new classroom buildings which will house the psychology and education departments, a new science building addition is nearing completion, and a \$7-million physical education building is being constructed and will open in 1976.



# Admission

Admission to Towson State College is granted to all applicants whose academic and personal qualifications give promise of success in the College. Because of limited facilities, the College reserves the right to close admissions when no further space remains. It is therefore advisable for high school students to make their college choice at the close of their junior year or early in their senior year.

Students seeking freshman admission should file applications during the first semester of the senior year. Priority for admission will be given to those whose applications and admissions material are received by March 1. Applications from transfer students should be received no later than May 1. Admission for February is granted on a space available basis. No application for February admission will be accepted after November 15. All admission material for February entrance must be received by December 1.

Applicants with excellent records are granted admission on the basis of high school work completed, with the condition that the remaining high school work will be satisfactory. Candidates for admission to Towson State College are strongly urged to complete a college preparatory program in high school.

The following are the admission requirements established by the Board of Trustees of the State Colleges.

- 1. Admission to the State Colleges shall be determined without regard to race, color, religion, or sex.
- 2. Admission: High school graduates
  - A. Admission shall be granted to graduates of high schools on the basis of grades, rank, admission test scores, and such other evidence, including the recommendations of appropriate high school officials, as may be deemed indicative of the ability of the applicant to complete a course of study in college leading to a degree.
  - B. No admission offer shall be made prior to receipt of a candidate's scores on the admission tests administered in the candidate's senior year or subsequent thereto, except as herein provided. Early admission may be offered to not more than a maximum of twenty percent of the anticipated enrollment in the freshman class. Such an offer shall be made only to an applicant of demonstrated superior scholarship and promise, as evidenced by his record through the junior year and by his performance on the admission tests administered in his junior year or subsequent thereto.
  - C. The tests to be used for admission purposes shall be the College Board Scholastic Aptitude Tests, effective with applicants for admission in September, 1967.
  - D. Admission prior to graduation from high school shall be conditional upon completion of the high school curriculum in a manner that would qualify the student to admission under paragraph A.
  - E. In the evaluation of academic credentials no preference shall be granted as between residents of the State, upon the basis of their places of residence.
  - F. Completion of a college preparatory curriculum shall not be a condition of admission. High school graduates who have

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not followed a college preparatory curriculum, but whose grades, rank, and aptitude test scores indicate the potential to complete a college degree program, shall not be denied admission on that ground.

3. Admission: non-graduates of high school

Admission shall be granted to applicants who are not high school graduates on the basis of high school equivalence examinations, the admission test scores, and such other evidence, including the recommendations of appropriate persons, as may be deemed indicative of the ability of the applicant to complete a course of study in college leading to a degree.

4. Out-of-State and Foreign Students

A maximum of twenty percent of the total student body at each college may be composed of out-of-state students and foreign students not resident in Maryland. However, the college shall be expected to meet its obligations to qualified resident students before approaching the maximum enrollment of out-of-state and non-resident foreign students.

- 5. Foreign Students
  - A. A foreign student not resident in the United States shall receive the same schedule of fees as an out-of-state resident.
  - B. All foreign student applicants will be required to take the Test of English as a Foreign Language which is administered by the College Entrance Examination Board.
- 6. Student Residency Classifications for Tuition Purposes
  - A. General. To qualify as a resident for tuition purposes for any given semester, an individual must have maintained his/her domicile in Maryland for at least six months immediately prior to the last date available for initial registration for that semester in the applicable State College.
  - B. Domicile.
    - (1) Establishment of domicile. The term "domicile" shall be synonymous with the term "residence." Domicile is a person's permanent place of abode; namely, there must be an intention to live permanently or indefinitely in Maryland. Domicile must be established in Maryland for a purpose independent of attendance at a State College.
    - (2) Maintenance/change of domicile. For the purpose of residency for tuition purposes, only one domicile may be maintained.
      - (a) A domicile in Maryland is lost when a new one is established elsewhere, or if an individual leaves the State with no intent to return to Maryland. After residing elsewhere for six months, regardless of intent to return, a student's status as a resident for tuition purposes is in question.
      - (b) The domicile of a student shall be determined at the time of initial registration but may thereafter be changed for any subsequent semester if circumstances change in relation to these regulations.
      - (c) The burden of proof of domicile shall necessarily rest with the student.
      - (d) A change in tuition status must be requested by a student prior to registration period in order to be effective for that semester.

- (3) Domicile of a minor. The domicile of an unmarried, unemancipated minor is normally that of the parent having custody of the minor. The following extenuating circumstances shall apply:
  - (a) If both parents are deceased, the domicile of the minor shall normally be that of the legal guardian if one has been appointed. If no legal guardian has been appointed, the minor's domicile shall normally be that of the person in loco parentis to the minor. A person stands in loco parentis to a student when he has put himself in the situation of a lawful parent by assuming the obligations incident to the parental relation without going through the formalities necessary to legal adoption. The determination of such status will be made on a case by case basis by the responsible college official who will consider who has custody or control of the student, who is financially supporting the student, and who has assumed general responsibility for his/her welfare.
  - (b) If the parent, legal guardian, or person in loco parentis (whichever is applicable) having custody of the minor changes his/her domicile to another state, the student shall be charged out-of-state tuition for any semester commencing six months after the person having custody changes his/her domicile.
  - (c) A non-resident student who reaches the age of twenty-one while attending a State College does not qualify for classification as a resident for tuition purposes simply by virtue of having become an emancipated student.
  - (d) An emancipated student is considered an adult for the purpose of determining his/her residence classi-
  - (e) The residence of a married minor shall be determined in the same manner as an adult.
- (4) Domicile of a woman,
  - (a) A married woman must establish her domicile independently of her husband, even though they live jointly.
  - (b) A divorced woman must establish her own domicile.
  - (c) A separated woman must establish her own domicile.
  - (d) A minor whose marriage is annulled takes on the domicile of her parent, legal guardian, or person in loco parentis.
  - (e) A woman over twenty-one whose marriage is annulled is responsible for establishing her own domicile.
- (5) Emancipation.
  - (a) Minors claiming emancipation from their parent, legal guardian, or person in loco parentis (if applicable) must present one or more of the following documents to substantiate any claim of emancipation:
    - (i) Proof of place and length of domicile in the State;
    - (ii) Marriage Certificate;
    - (iii) Court order declaring that a student under the age of twenty-one is emancipated from his/her parent or legal guardian. (A notarized letter and

a copy of the previous year's tax return from the parent(s) or legal guardian may suffice if the costs of obtaining a court order place an undue financial burden on the student.)

- (b) Minors claiming emancipation must meet the domicile requirements of an adult.
- (6) Adults. A person twenty-one years of age or older is a resident if he/she has maintained continuous domicile in Maryland for six months immediately prior to the last date available for initial registration.
- (7) Military Personnel.
  - (a) Members of the Armed Forces not from Maryland at the time of entrance into the Armed Forces and stationed in Maryland may be considered residents of this State if they establish domicile in Maryland.
  - (b) The dependents of men and women in any branch of the Armed Forces who are stationed in Maryland and who have established domicile in the State six months prior to their first registration are granted residence status for tuition purposes.
  - (c) A member of the Armed Forces who was a resident of Maryland at the time he/she entered the Armed Forces retains his/her residency status as long as he/she remains in the Armed Forces provided he/she does not establish domicile elsewhere.
  - (d) An adult sent by a branch of the Armed Forces to a State College for the purpose of completing degree requirements may be granted residence status for tuition purposes.
- (8) Foreign Nationals.
  - (a) Any foreign national holding a permanent United States immigrant visa must meet the domicile requirements of an adult or a minor, as applicable.
  - (b) A foreign national possessing a student visa cannot be classified as a resident of Maryland.
  - (c) The minor sons and daughters of citizens of other countries who are holders of a G-4 visa and whose parent(s) or legal guardian establish domicile in Maryland for a period of six months prior to registration at a State College may be granted residence status for tuition purposes.
  - (d) Adults on refugee visas of other countries may be granted Maryland residence status provided they establish domicile in the State for a period of six months prior to their first registration at a State College. Minors acquire the residence of their parent(s) or legal guardian.
- (9) Responsibility of Students.
  - (a) Any student or prospective student in doubt concerning his/her residence status is responsible for receiving a ruling from the designated official at the applicable State College.
  - (b) A student who alters his/her status from resident to non-resident, or vice-versa, has the responsibility of informing the designated official at the applicable State College.

- (c) The residency status of a student may be altered by the applicable State College on the basis of its own findings.
- (d) A change in status must be requested by a student prior to the registration period in order to be effective for that semester.

#### 7. Admission: Advanced undergraduate standing

- A. An applicant for advanced undergraduate standing must present official transcripts from all institutions which he has attended. The transcript from the last school he attended must show him to be in good standing. Transfer credit shall be allowed for all academic course credits earned at public colleges accredited by the Maryland State Department of Education or at any regionally accredited college or university. Career, terminal or other courses not offered at the College will be accepted for transfer credit if approved by the appropriate department of the College, or in the absence of an appropriate department, by the Admissions Committee of the College. In all cases, the applicant must spend the final year "in residence" at the College as a full-time student. Exemption from the preceding requirement may be granted on an individual basis by the Standards Committee.
- B. It is the policy of the Board of Trustees that every effort shall be made to facilitate the transfer of graduates from the public community-junior colleges of the State of Maryland to the State Colleges. Such graduates who have pursued a transfer program and who have achieved an Associate in Arts Degree within four semesters in the case of full-time students, or the equivalent in the case of part-time students shall have priority over other transfer applicants for upper class standing. For priority purposes, Towson will consider a student with 56 credits as having completed his work at the community college.
- \*C. Every student must meet the general education requirements, departmental requirements and earn 128 credits in order to graduate.

A maximum of 98 credits may be transferred to Towson State College from another regionally accredited institution; not more than 64 of these transfer credits may be from a two-year institution. The sequence in which the credits are obtained at 2-year and/or 4-year institutions does not affect in any way the determination of the previously stated total number of credits accepted for transfer. Transfer students are reminded of the rule that a minimum of 32 semester hours of upper division work is required for graduation.

Towson State College students must obtain prior approval of the Academic Standards Committee to take courses at another institution for the purpose of transferring them for credit. In general the Committee will not approve taking courses for credit at a 2-year institution once junior status (64 credits) has been attained.

D. Transfer credit will not be given for correspondence courses or for U.S.A.F.I. or military courses. Transfer credits will

<sup>\*</sup>For specific details regarding this policy contact Secretary of the Academic Standards Committee or Director of Admissions, Towson State College.

not be given for courses taken at a college or university which is not accredited by its regional association or the Maryland State Department of Education.

## 8. Admission: Veterans

Effective November 1, 1969, any veteran who is eligible for G.I. benefits and who has a high school diploma or equivalency will be admitted to Towson State College despite his previous academic record(s). Veterans who have attended other colleges since their discharge are NOT included in this policy, and would seek admission through the normal transfer process. Priority for the acceptance of veterans will be given to the residents of the state of Maryland. Out-of-state applicants will be admitted on a space available basis. In addition to high school or college transcripts, each veteran must also provide the Admissions Office with a copy of his DD Form 214 as verification of military service. The S.A.T. results are NOT required of veterans seeking full-time admission under this policy. Applications for V.A. benefits may be obtained from the College's Office of Veterans' Affairs.

#### **ADMISSIONS** PROCEDURE

- 1. An applicant may secure an application form from the guidance office of the secondary school or from the Admissions Office of the College.
- 2. The applicant should complete the personal part of the form and forward it with the application fee of twenty dollars to the Director of Admissions. Each applicant is responsible for the Admission Office's receipt of his/her official high school transcript, which must be received directly from the student's high school. The transfer applicant should arrange to have forwarded official transcripts of all college work attempted or completed, whether or not credit was earned from all other institutions attended.
- 3. The standardized test required for admission is the Scholastic Aptitude Test of the College Entrance Examination Board. The applicant should arrange to have forwarded to the Director of Admissions the results of this test. Students should take the test in their senior year of high school (either the November, December, or January administration). Junior year SAT scores are also acceptable.

#### DEFERRED **ADMISSIONS**

Effective September 1974, Towson will offer admission to high school students, who qualify under present standards, with the option of accepting the offer beginning any semester within the next three years. Students will be obligated to notify the College and submit an acceptance fee three months prior to the semester they wish to attend. Students will be responsible for complying with the academic regulations published in the College Bulletin in effect for the semester in which they enroll.

Students who enroll at another institution will be required to apply as transfer students.

## MATURE **ADULTS POLICY**

In September 1974, Towson State adopted an admissions policy which guarantees admission to a mature student regardless of the student's previous academic records or standing. Students are required to be a minimum of 21 years of age, have a high school diploma or equivalency, and have a three-year break in their formal education in order to be admitted under this policy. Applicants are required to submit a formal application and official transcripts of any and all academic work attempted, but are excused from entrance test requirements. Applicants are also encouraged to have an interview with the Director of Admissions or a member of the Admissions staff prior to their anticipated enrollment.

#### EARLY ADMISSION

A limited number of students are admitted and matriculate immediately following the completion of their junior year in high school. Students interested in "early admission" should apply through the normal application process. Their applications, however, must be accompanied by a letter of recommendation from either the high school counselor or principal. An official high school transcript should be submitted along with the results of the S.A.T. An interview with the Director of Admissions is also advisable.

# ADVANCED PLACEMENT AND CREDIT FOR ENTERING STUDENTS

The College does not wish students to repeat work already taken. Entering freshmen who have had the opportunity for advanced work may receive advanced placement (and in some cases advanced credit) for this work.

During the summer prior to registration or during the opening week, freshmen take placement tests in various fields, and registration is based on the results of these tests.

Students who would like advanced credit as well as advanced placement are required to take the Advanced Placement Tests of the College Entrance Examination Board in May of the senior year of secondary school. In addition, students wishing to continue studying a foreign language should arrange to take the Language Listening Examination along with the Advanced Placement Tests. The results of these tests are received by the College about July 15. They are reviewed, along with grades in these subjects, by the departments concerned, and when appropriate, placement and/or credit is granted. Prior to final registration students are notified about advanced placement and credit. Additional information may be obtained by contacting the Director of Admissions at Towson State College.

A bulletin of information about the Advanced Placement Tests may be secured from the College Entrance Examination Board, P. O. Box 592, Princeton, N.J.

## CREDIT FOR EXPERIENCE AND PREVIOUS LEARNING

Departments are permitted to grant credit to students for experience and previous learning when the student's achievement in a particular area is equal or is superior to that of a student having earned a C in the course taken. This is the level at which credit is generally granted to transfer students. While departmental standards for the granting of credit for experience and previous training may exceed this minimum, credit may not be given when achievement is below C level work. Departments may also offer advanced placement with no credit given if they wish.

When departments use standardized evaluative instruments such as CLEP, the College Board Advanced Placement Tests, or others, the same principle shall be adhered to. If the faculty member's evaluation reveals that the student's achievement is equal or superior to that of a student having earned a C in the course taken in a traditional way, the department will report the grade of PE to the Registrar on the form for granting course approval to students.

# EVALUATION OF TRANSFER CREDITS

An applicant who has been admitted to the College as a transfer student will receive an evaluation of his previous course work from the Admissions Office with his letter of acceptance, or shortly thereafter. This evaluation will be preliminary in nature if the student is still taking course work. If the student accepts Towson's offer of admission, a final evaluation of transfer credit will be made upon receipt of the transcript showing his grades for the most recent semester.

Upon receipt of his final evaluation, a student should carefully review its contents. If he has any questions or feels there is an error, he must so advise the Admissions Office within 30 days. In no case will changes, additions, or corrections be made to the evaluation after the student has completed his first semester at Towson State College.

#### PLEDGE TO TEACH IN MARYLAND

The tuition waiver program to encourage students to prepare for teaching positions in Maryland was abolished after 1 October 1972.

All students enrolled under the tuition waiver agreements in the fall semester 1972 may continue their program to graduation providing they are continuously in good standing from the fall of 1972 until graduation.

Students who are required to interrupt their attendance after the fall semester 1972 would be able to resume the tuition waiver agreement providing the student had officially withdrawn from the College for a period not exceeding one year.

#### EVENING AND SUMMER PROGRAMS

Information pertaining to these programs may be obtained by referring to the Evening College Bulletin or the Summer Session Bulletin.



# Expenses

TUITION

Those who enroll in the arts and sciences program, and those in teacher education program pay \$100 per semester tuition.

For out-of-state students the tuition is \$325.00 per semester for enrollment in either the arts and sciences or teacher education program.

Special students (normally those who register for less than 12 semester hours) in the regular session, and all summer and evening session students pay \$25 per credit hour each semester for undergraduate and \$38.00 per credit hour for graduate work.

Tuition charges and fees are subject to change at any time by action of the Board of Trustees.

# HOUSING AND BOARDING COSTS

Students who live on campus will pay approximately \$650.00 per semester depending upon the plans of room and board they request. For students who live off campus that wish to purchase a meal plan, there are various plans costing approximately \$325.00 per semester (10 to 20 meals per week).

As residence space becomes available, those students who are eligible to reside in residence will be requested to room in one of the halls. For those students who enter the residence hall after the beginning of a semester, the charge will be prorated for the remainder of the semester plus one week. (For exact rates contact the resident offices.)

Rates for living expenses are subject to change by the Board of Trustees.

# OTHER FEES AND EXPENSES

A comprehensive fee of \$199.00 is charged each full-time student each semester. The yearly fee in \$398.00. This includes fees for student activities, athletics, college center, registration, and curriculum costs.

A limited number of lockers are available upon request at the College Center for student use in Stephens Hall. The College assumes no responsibility for personal property placed in the lockers. Lockers to be used by students taking physical education courses are assigned by the Departments of Physical Education in Burdick Hall. Student lockers are available for \$2.00 per year and may be obtained from the recreation office in the College Center.

A graduation fee of \$15.00 is required for those receiving a bachelor's degree and the fee for those receiving a master's degree, plan A (with thesis) is \$30.00, plan B (without thesis) is \$25.00.

Dormitory students are assigned individual mail boxes. Each student shares a mail box with one or more students. There is a fee of \$1.00 per student included in the comprehensive fee.

A student is expected to buy the textbooks for his courses, which may be purchased in the College Bookstore. Students are required to buy gymnasium suits for the courses in physical education. These are also available in the College Bookstore.

A late registration fee of \$5.00 is charged to any student who does not pre-register as prescribed.

A late change of course fee of \$5.00 is charged to students for making student-initiated changes in their academic schedule.

Evening and summer students are charged \$25.00 per credit hour (undergraduate) or \$38.00 per credit hour (graduate) and a \$19.50 comprehensive fee for each semester.

Students enrolled in a practice teaching experience (student teaching) are charged \$106 per practice experience.

The Board of Trustees reserves the right to make any changes or adjustments in tuition, fees, or charges when such charges are deemed necessary.

## EXPENSES FOR MARYLAND RESIDENTS

Arts and Sciences students and Teacher Education students expenses:

	Semester	Semester	
	I	II	Total
			for Year
Comprehensive Fee	_\$ 199.00	\$199.00	\$ 398.00
Tuition (In State)	_\$ 100.00	\$100.00	\$ 200.00
Total Day Students	_\$ 299.00*	\$299.00*	\$ 598.00*
Room and Board	_\$ 701.00**	\$700.00	\$1401.00
Total Boarding Students	_\$1000.00	\$999.00	\$1999.00

<sup>\*</sup>Out of state students should add \$225 more to each semester for higher tuition costs.

## PAYMENT OF FEES

All checks or money orders should be made payable to "Towson State College" for the exact amount of the charges. *All fees are due and payable at the time of registration*. Students may not be admitted to classes until such payment has been made. A penalty fee of \$5.00 for amounts up to \$50.00 or \$10.00 for amounts over \$50.00 is charged when a check given in payment of fees, fines, or services is returned by the bank for any reason whatsoever.

Financial policy set by the Board of Trustees and supported by the Legislative Auditors of the State of Maryland states that all previous balances must be paid prior to registration for the following academic semester.

# ADVANCE PAYMENTS

Each applicant must pay a non-refundable application fee of \$20.00 and no application will be processed without this fee or a valid waiver.

Once admitted, a student must submit a non-refundable \$25.00 acceptance fee in order to reserve a place in the class. This fee will be credited to the student's account at registration.

A deposit of \$100.00 for room reservation is required of applicants for housing upon notification from the Housing Office that space is available. This fee is applied to the final amount of room and board due at the time of registration.

The above room deposit is refundable if the student cancels his application and notifies the Admissions Office, in writing, prior to June 30 for those entering in September, or if the College denies admission to the applicant.

The fee is forfeited if notice of cancellation is received after June 30.

All advance payments are to be sent to the Admissions Office.

# LIABILITY FOR UNPAID TUITION

A Maryland student enrolled in the teacher education program who paid no tuition because of signing a pledge to teach in the State, is liable for unpaid tuition if he voluntarily withdraws from the teacher education program before graduation.

If he leaves college before graduation or transfers to the arts and sciences program, he will be billed at the arts and sciences tuition rate for the education he obtained at the College.

<sup>\*\*</sup>Includes \$1.00 key deposit which will be refunded at checkout if key is returned. These figures are based average expected room and board rates.

PLEASE NOTE: Because of rapidly increasing costs and virtually a standstill budget appropriation, it may be necessary to increase the tuition or fee \$50 to \$100. It is suggested that the amount on checks not be completed until registration.

He may be released from the above tuition payment if he transfers to a Maryland institution which has a teacher education program approved by the State Department of Education which will accept the waivers allowed at Towson State College. (This program is not available for new applicants.)

#### REFUNDS ON WITHDRAWAL

A student withdrawing from the College must complete an official withdrawal card and file it in the Registrar's Office before he is entitled to any refund. The date of withdrawal will normally be the date the card is filed.

#### Refund Policies

- 1. Towson State College shall adhere to the following policies with respect to refunds to students of tuition, room and board fees, and other charges.
- 2. The timing for effecting tuition refunds shall be as follows:
  - a. Prior to registration and before classes start—all tuition and fees except the application/registration fee shall be refunded the student.
  - b. Prior to the fifteenth calendar day from the official beginning of classes at the College-100 percent of tuition, less a \$10 administrative cost fee and \$25 acceptance fee, shall be refunded the student.
  - c. Beginning with the fifteenth day after the official beginning of classes at the college to mid-semester, as shown on the college calendar—50 percent of tuition, less a \$10 administrative cost fee and \$25 acceptance fee, shall be refunded the student.
  - d. After mid-semester—no tuition or fees shall be refunded the student.
- 3. The same time span shall be utilized for fee refunds, except that:
  - a. Registration/application fee—non-refundable.
  - b. Room Deposit fee-non-refundable after July 1 prior to the fall semester.
  - c. Room Rent fee-non-refundable.
  - d. Student fees (athletic, curriculum, etc.) -non-refundable.
  - e. Auto Registration fee-non-refundable.
  - f. Applied fees (private instruction)—non-refundable.
  - g. Board fee shall be pro-rated on a weekly basis, plus one week up to mid-semester—thereafter, non-refundable.
  - h. Key Deposit fee-100 percent refundable.
- 4. The timing for effecting tuition and fee refunds for summer sessions shall be the same as for regular sessions except that for a period not to exceed fifteen calendar days after the official beginning of classes at the College, only 50 percent of the tuition shall be refunded the student. Beginning with the fifteenth day after the official beginning of classes at the College, no tuition shall be refunded the student.
- 5. Individuals who register for a full schedule and who drop courses after the official beginning of classes at the College shall not be entitled to a refund based on a credit-hour charge.
- 6. Any student dismissed by a college for disciplinary reasons shall not be entitled to any tuition or fee refund.

# Student Personnel Program

The central purpose of the Personnel Program is to promote the kind of environment in which college students may develop into mature, well-balanced citizens, self-disciplined and aware of the lifelong process of education and individual fulfillment. The program fosters student initiative, student responsibility and the rights of students to plan and execute. It provides opportunities for student involvement, for creativity, for accomplishment, and fosters a climate conducive to intellectual stimulation and growth. The program also provides services for those students who meet difficulties they themselves cannot resolve.

#### ORIENTATION

Orientation at our institution is a vital process. In an age of accountability, Towson State College clearly delineates what college will offer, and the expectation of students in meeting those goals.

In Towson State College's summer orientation program, TRIAD, we coordinate three areas of student concern: orientation. registration, and academic advising. In twenty-four one-day sessions, Towson assimilates a large number of entering freshman, transfer, and re-entry students.

Our major responsibility in TRIAD is to take twenty-four hundred new students, who are relatively unacquainted with the processes and traditions of our college and acquaint them with Towson and with the variety of freedoms, values, and attitudes each student faces during a college career. The key to TRIAD is individualism.

Student and faculty advisors bind together in the guidance of new Towson State College students. Together, faculty and student advisors lead new students through a series of experiences that will enable them to define their academic and social needs and aid them in identifying the means available on this campus to satisfy those specific needs.

Running concurrently with our TRIAD program is a Parent orientation session which offers parents a picture of this college and the student life on this campus.

Rounding out our orientation programs are two miniorientations in the fall (September) and the spring (February). These programs, like TRIAD, achieve their optimal effectiveness with a minimal amount of time and anxiety. To further enhance the orientation facilities at this institution, efforts are now being undertaken to develop a Senior orientation program, a program that focuses on the needs, necessary adjustments, and anxieties of the out-going student, and a continuing orientation program for all new students that would attempt to continue the individualized perspectives of our TRIAD program in an on-going process.

Our orientation staff is here to serve you during the entire school year. They hope that you will be willing to work with them throughout your entire college career. Their office is located in room 223 of the College Center. The door is always open.

# International Student Affairs

The community of Towson State College is a cadre of peoples of various ethnic, religious, and minority backgrounds. Through intercultural interaction, the Towson State College student is afforded the opportunity to establish and maintain an awareness and understanding of the peoples in his surroundings. To add to the cultural milieu of this institution's makeup is a growing body of international students and faculty. The college realizes that many personal and intellectual benefits can be derived through reciprocal investigations of culture.

On the international level, the college has created the office of International Student Affairs. This office coordinates our admissions program with the policies of the Department of Immigration and Naturalization. Through this office, impetus is given to social and academic assistance of the international student population at Towson State College. The office encourages and aids in the coordination of activities such as the International Student Union. The major duty of this office, however, is the dissemination of the Towson State College policies of admission toward the international students. International students who would like to enter or transfer to the college should be aware of some of the regulations that Towson State College has in regard to this area.

A few of the more pertinent regulations pertaining to the international student on this campus are the following:

- 1. A "Foreign Student" at Towson State College is considered to be any student possessing an F-1 (Student Visa); F-2 (Spouse, or Child of Student Visa); J-1 (Exchange Visitor Visa); or J-2 (Spouse or Child of Exchange Visitor Visa) visas. Exceptions or additions to this rule will be regulated by the Foreign Student Advisor.
- 2. All foreign students entering this college must have and be able to prove substantial proficiency in the English language.
- 3. All foreign students entering the college should be able to support themselves entirely for one calendar year. This year being the first year of residency at this college, be it freshman, sophomore, junior, or senior year.
- 4. No foreign students are eligible for regular employment at this college until they have been present for at least one calendar year at this institution, be it freshman, sophomore, junior, or senior year.
- 5. No foreign student will be issued a form I-538 for continuation or acceptance of employment until he has maintained at least one calendar year residency at this institution, be it freshman, sophomore, junior, or senior year.
- 6. The College has no extra responsibility to foreign students who are special students in the Evening and Summer Division. They will be issued no forms or receive considerations other than the considerations due them as students of our institution.
- 7. Transfer students must have prior permission to transfer to Towson State College from the Department of Immigration

& Naturalization, and must fulfill all of the above requirements as stated. In addition, they should have in their possession, an I-94 form stamped "Transfer to Towson State College."

- 8. All foreign students enrolled in the Day School, and the Summer and Evening School must carry 12 credit hours per semester. Graduate students must carry at least 10 credit hours per semester, but may carry less if after enrolling for four graduate courses their credit hours do not total ten.
- 9. Foreign students must be matriculating (i.e. enrolled in a degree program) students in order to receive government forms, or any other considerations as foreign students from this college. The only exception is the Graduate School where students may be seeking certification, etc.

The office of International Student Affairs is located in the College Center, Room 223. The hours are 8:30 a.m. to 4:30 p.m.

#### ADVISEMENT

As a part of TRIAD's on-going orientation functions, the TRIAD Academic Advising Center operates on a year-round basis. Located in the Associate Dean of Students' office, College Center, Room 223, students are able to receive individualized attention in regard to all collegiate-associated advising. Students are given aid in selection of semester courses, suggestions for their major area of study, alternatives to withdrawal, light load information, general academic policies and procedures, and referral for other more complex problems.

Any student who has any unresolved difficulties concerning his/her college career at Towson should visit our offices.

An advising program is also available for minority students under the Study Skills Support Services Center. Additional information can be found on page 41.

# Students Who Have Selected a Major

Immediately upon deciding upon a major, the student should go to the department of that major to choose, or be assigned, a faculty member who will serve as his advisor for the remaining years the student is in college.

Arts and Sciences majors are assigned advisors through the coordinators of that program, the Associate Academic Deans.

# Students Who Have Not Selected a Major

Students who have not chosen a major also need to discuss professional, and educational problems with faculty advisor. Therefore, any student without a major who needs academic advice will be helped through the Office of the Associate Dean of Students, Ad 106.

CENTER FOR THE DEVELOPMENT OF HUMAN RESOURCES (COUNSELING CENTER)

The role of the Center for the Development of Human Resources is to maximize the opportunity for Towson students to make the fullest use of their educational experience. In fulfilling this role, the Center offers students an atmosphere of freedom, trust and confidentiality in which to explore alternatives to personal, social, or vocational problems. Of equal concern to the Center is its development of programs designed to create an environment which minimizes roadblocks to student growth. The Center recognizes that the college community is highly diverse, and that it must be responsive

to the needs of minority students to make the educational experience most meaningful to all.

Individual counseling is offered by appointment and the sessions generally last 50 minutes. For those problems of an emergency nature, every effort is made to meet them without a previous appointment.

Staff members at the Center are available to provide training for the acquisition of effective living and helping skills. Training programs are offered to enable members of the college community to further develop their abilities to be helpful to others. Upon the successful completion of training, many students are eligible to work as helpers in various programs established on campus.

Experiences in groups are offered throughout the year to those who wish to refine their skills in human relations. Included in the various emphases of these groups are Awareness, Life Planning, Career Development, Creativity, Self Understanding, and College Concerns.

Staff members at the Center are available for consultation with faculty, students, and administrative groups. Assistance is provided in the development, implementation, assessment of programs related to enhancing the learning environment and humanizing the educational process. Every effort is made to establish programs which impact the college community in ways which maximize the chance for personal institutional growth and minimize the occurrence of failure.

The Center for the Development of Human Resources has established a Satellite Center in the Study Skills Support Services Center located in the College Center. In establishing a Satellite Center, the Center for the Development of Human Resources extended all services available in the Center itself with a special focus on academic advising programs; i.e., course selection in planning semester schedules for non-majors, aid in improving contact between students who have chosen majors and their assigned advisers, and interpretation and clarification of all academic regulations that apply to a student's academic situation.

All students are encouraged to use the services and a special invitation is extended to minority students whose needs have not been met traditionally in a counseling setting.

#### Mental Health

Psychiatric services are available to all students without charge at the campus Mental Health Service, located in the Health Center. Psychiatrists from the staff of Sheppard Pratt Hospital are in offices in the Health Center each class day for appointments with students who wish to see a psychiatrist for brief consultation or short-term therapy. Often problems can be resolved quickly, but psychological testing, longer-term therapy, group therapy, or other referrals can be arranged as needed.

All contacts with the Mental Health Service are entirely confidential. Students may make their own appointments by contacting the Health Center in person or by telephone at extension 243.

In addition, the Mental Health Service is available to work with various groups on campus in regard to mental health concerns in

specific areas or in the college community as a whole. Students who wish to have psychiatric collaboration or participation in their activities may feel free to request this service by contacting the Supervisor of the Mental Health Service, at the Health Center.

# STUDY SKILL SUPPORT SERVICES CENTER

The Study Skills Support Services Center is designed to provide academic support services for students at Towson State College. It is primarily aimed at assisting minority students who have the potential to do college work but who are in need of academic support services to facilitate their academic growth and development at Towson State College.

Services are provided in the following areas by appointment:

- 1. Counseling Academic Advising (both on a walk-in and appointment basis)
- 2. Reading Seminar Three (3) offered on a no credit basis
- 3. Special courses in communication skills.
- 4. Individualized reading programs includes comprehensive reading evaluation of the student
- 5. Individualized tutoring sessions in a variety of subject areas such as psychology, English, math, biology, music, etc.
- 6. Tutoring positions for juniors and seniors (Work-study and Regular)
- 7. Small library with reference materials that can be used within the Center
- 8. Seminar in Listening Skills
- 9. Seminar in Study Skills Development
- 10. Student Discussion Groups (J. Harris)
- 11. Summer Transitional Program

# STUDENT DAY CARE CENTER

The Student Day Care Center provides quality child care for the children of Towson State students. Applications may be obtained by calling the director, at 823-7500, ext. 843 or by writing to the Center. Children must be 2 years 9 months old by admission date and are accepted on a first-come first-served basis with full-time students receiving priority. Tuition is charged on a sliding scale dependent upon gross family income and is partly subsidized by student fees. The center is in operation from 7:30 a.m. until 5 p.m. and follows the College calendar with the exception of the mini-mester.

#### FINANCIAL AID

The Financial Aid Office at Towson State College believes that it is the responsibility of both the student and his parents to pay college expenses. Financial aid may be designed to supplement, but not replace, these primary resources. Therefore, most of TSC's aid programs are based on the financial need of the family.

The nationally standardized procedures suggested by the College Scholarship Service (CSS) through its Parents Confidential Statement are utilized to demonstrate need. This program is based on need analysis procedures required and approved by Federal law. Self-supporting students use the Student Financial Statement (SFS) to demonstrate need. Please check with the Financial Aid Office to determine if you may file as a self-supporting student. All students must reapply every year for continuation of financial aid.

Except as noted within individual program descriptions, all students who are carrying at least 6 credits per semester, are in a degree seeking program of study and are in good standing are eligible to apply for student aid programs. Special non-degree seeking students will be considered if funds are available.

Since college financial assistance programs are based on financial need, students are required to report to the Financial Aid Office all scholarships, loans, grants and earnings from employment not originally reported on the application for aid as they occur. The student's need will be reevaluated. If need is decreased the student's aid will be reduced accordingly. Where possible, the student's aid for the following semester will be adjusted. Should an over award occur (aid received is in excess of need), the College will bill the student for repayment of assistance already received. The payments will be refunded to aid accounts in the following order: BEOG when applicable, NDSL and Nursing Loans, Other Race Grants, College Scholarships and Grants, Federal Grants (SEOB, Nursing Scholarship). Should an over award occur (aid received is in excess of need), the College will bill the student for repayment of assistance already received.

Student assistance is disbursed by individual checks made out to each student. All students must personally come into the Financial Operations Office to sign for their checks and pay their bill even though they may have been given credit for the payment in advance on their statement of fees. FAILURE TO CLAIM CHECKS will result in cancellation of the student's award. The student would then be billed personally for the balance due.

## Application Procedures for College Financial Aid Programs

Incoming freshmen should obtain the Parents Confidential Statement (PCS) from their high school counselors or from the TSC Financial Aid Office. A TSC Form A application supplement must be sent to the TSC Financial Aid Office before processing may be completed. Upperclassmen should apply directly to the Financial Aid Office for a renewal PCS and Form A. Self-supporting students should submit a Student Financial Statement (SFS) in addition to the Form A which are available upon request from the Financial Aid Office. (All appropriate forms must be on file before processing begins). There is a \$4.00 processing fee for the PCS and \$3.75 fee for the SFS, payable to the College Scholarship Service at the time the application is filed. (Fees are subject to change).

All prospective freshmen and transfer students should file their TSC financial aid application when they submit their TSC admission application although financial aid applications will not be processed by the College until the student has been offered admission. Applications for all financial aids should reach our office by April 1 for the following school year. Applications for summer should reach our Office before March 15. (Please note that 4 to 5 weeks processing time by CSS must be allowed in meeting these deadlines). Students who are admitted as new students after April 1 may be given consideration for funds after the deadline date. After April 1, we cannot assure immediate processing nor announcement of results prior to the beginning of the school year. If funds are still available, necessity cases will be processed during the school year.

## Federal Aid Programs—BEOG

The Basic Educational Opportunity Grant Program (BEOG) provides grants to eligible students. All students carrying at least 6 credits per semester are eligible to apply if they did not attend an institution of post secondary education prior to April 1, 1973. Grants may range as high as \$1400 depending on the federal formula. The grant is awarded by the federal government, not the College; therefore, students must file a separate BEOG application with the federal government which may be obtained from the Financial Aid Office or high school guidance counselor. All students applying for financial aid from the College who are eligible to apply for the BEOG are required to do so by Towson State College.

## College Aid Programs

The Supplemental Educational Opportunity Grants Program (SEOG) provides grants to half- and full-time students with exceptional financial need (student's family contribution less than one half the cost of education). Recipients must show evidence of academic or creative promise and capability of maintaining good standing in his/her course of study and would not, but for a supplemental grant, be financially able to pursue a course of study at Towson State College. These grants may provide up to one half of the actual need of the student and do not have to be repaid. The other half of the actual need must be met by state, private and college scholarships, loans, work-study jobs and other aid, or the grant may not be received.

The National Direct Student Loan Program. (Formerly National Defense Student Loan) makes up to \$5000 in five years available on a loan basis to undergraduate students and \$10,000 aggregate for graduate students who have proven financial need. There is no interest charge on this loan as long as the student continues in at least half-time status, but there is interest of 3% beginning ten months after the student leaves school. The recipient may have up to ten years to repay the loan following his or her departure from school. Special education teachers and teachers teaching in economically and culturally deprived areas may receive a specified percentage cancellation of principal for each teaching year up to 100%. The money cannot be received until the student is registered for the semester for which the loan is granted.

The College Work-Study Program (CWS) makes jobs available to students with exceptional financial need. These jobs are usually assigned as part of the "Financial Aid Package." If at all possible, students are placed in positions that are related to their academic major or special interest. Employment may be obtained in departmental offices on-campus and non-profit private or governmental agencies on a contracted arrangement off-campus.

#### Other Race Grant

The Other Race Grant (ORG) is an out-right grant for degree seeking minority students attending on a full-time basis who are legal residents of Maryland and have financial need. These grants are usually awarded in combination with these awards. The maximum grant may not exceed the need of the student.

The Law Enforcement Education Program (LEEP) provides loans of up to \$2200 per academic year and grants up to \$400 per semester

for college studies by police, courts, and corrections employees and students preparing for careers in these law enforcement fields. Additional information and applications for LEEP can be obtained in the Financial Aid Office. Deadline for loans in April 1 for the following academic year. Deadline for grants is one month prior to registration.

The Nursing Student Loan and Scholarship Program provides financial assistance to full and half time students of exceptional need who plan to undertake courses of study leading to careers in nursing. The maximum scholarship or loan to be received is \$1500 or \$2500 respectively per academic year depending upon financial need. The student must be accepted into the nursing program (usually the second semester of the sophomore year) before being eligible to apply under the Loan and Scholarship Program. Students eligible to receive the Nursing Loan are not eligible to receive a National Direct Student Loan.

Ed Moulton College Loan Fund. The Ed Moulton Loan Fund and College Loan Fund were combined in 1974 to offer short term loans. Loans are given up to a maximum \$400 at 12% annual interest. Applications may be secured from the Financial Aid Office. The Ed Moulton Loan Fund was established in 1956 in memory of Ed Moulton, a former Towson State College Student. The Sarah E. Richmond Loan Fund was established by Sarah E. Richmond, who was affiliated with the College for 50 years as student, teacher, principal, and dean of women. This fund has been increased by gifts from the Alumni Association. Other contributions to the College Loan Fund are from the following: James Saxton Memorial, the Class of 1900 Memorial to Katherine Muhlback, the Class of 1925, the Normal Literary Society, the Pestalozzi Society, the Reese Arnold Memorial, the Lillian Jackson Memorial, the Esther Sheel Memorial (Class of 1927), the Carpenter Memorial, the Eunice K. Crabtree Fund (gift of the Class of 1931), the Pauline Rutledge Fund (gift of the Class of 1934), the Pearle Blood Fund (gift of the Class of 1940), the 1933 Gift Loan Fund of Faculty and Students, the Gertrude Carley Memorial, Washington County Alumni, the Grace Boryer Downin Fund, the Class of 1941 Fund, the Martha Richmond Fund, the Towerlight Fund, the M. Clarice Berch Fund (gift of the Class of 1951), the Bettie Sipple Fund sponsored by the Maryland Federation of Women's Clubs, the Lucy Scott Memorial Fund, the James B. O'Toole, Jr. Memorial Loan Fund, the Ellen Pratt Hamilton Memorial Loan Fund, the Rodgers Forge PTA Loan Fund in memory of Ellen Pratt Hamilton, the Delta Beta Delta Loan Fund, and periodic contributions from the Alumni Associations.

## State Programs

The Maryland Higher Education Loan Program is geared toward the family with less actual financial need, but who desires to utilize credit to meet college expenses. These bank loans provide up to \$1,500 per year for undergraduates and \$2,000 for graduate students. The federal government pays the 7% interest for students from families with adjusted incomes under \$15,000 while they are in college. Families with adjusted incomes over \$15,000 may qualify for the interest waiver if need is demonstrated. Loans may also be secured without the federal interest benefit. Applications may be received and must be processed by the financial aid office before final

arrangements for the loan are made with the bank. Further information may be received from the financial aid office.

## State Scholarships

- A. The Teacher Tuition Waiver (Pledge) was abolished as of October 1, 1972. Only students who signed the Pledge prior to that date may continue on the program.
- B. The state of Maryland each year awards General State, House of Delegates, and Senatorial Scholarships to legal residents of the state. Interested high school students should consult their school counselors. Students presently enrolled at Towson State College may obtain an application from the Financial Aid Office or the State Scholarship Board, 2100 Guilford Avenue, Baltimore, Maryland. The application deadline is in December for the following academic year in the General State program. There is no deadline for the other two programs.
- C. War Orphan and Vocational Rehabilitation Program. Students are entitled to financial assistance if they qualify for either of the above programs. Eligible students should report the fact immediately to the Comptroller's Office of the College.
- D. Professional School Scholarships in tuition are available to TSC students majoring in Nursing. Further information should be obtained from the TSC Financial Aid Office.

College Scholarships. The Helen Aletta Linthicum Scholarships were established by the will of Mrs. Linthicum, widow of J. Charles Linthicum, who was a member of the class of 1886. The fund is administered by the trustees of the estate and the Financial Aid Office. All entering and continuing students are eligible to qualify for these sixty awards. The Edith C. Sheridan Scholarship, estabblished by Mrs. Sheridan, a member of the class of 1906, is also administered by the Financial Aid Office. One upper-class student may receive the Minnie V. Medwedeff Endowment Scholarship. This award is made annually to an outstanding student selected by the trustees of the fund. The scholarship was established in memory of Minnie V. Medwedeff by her father. Miss Medwedeff was an instructor in the College from 1924 until her death in 1935. The Alice B. Gibson Scholarship fund was established in 1969 to be awarded to an upperclassman majoring in early childhood or elementary education. The scholarship is awarded by the Financial Aid Office. The Herbert A. Siegel Scholarship fund was established to be awarded to an outstanding student majoring in psychology. The Heidi Livingston Scholarship fund was established to be awarded to a student majoring in music. Other scholarships include: the Jean B. Crow Memorial Fund, Jennifer L. Thomas Memorial Fund, John David Horst Memorial Fund, James Moniodis Scholarship Fund, the "A" Scholarship Fund, John J. Leidy Scholarship, Rachel Rosen Scholarship Fund, Velie Scholarship, F. M. Schaeffer Scholarship and the Endowment Fund Program for Latin American, Spanish and Portuguese Students in Memory of Dr. Francisco Sabin.

Regular Student Employment. (Other than Work-Study) positions as well as off-campus job positions are maintained on the Job Boards in the Financial Aid Office and the College Center. The on-campus jobs may be in the various areas throughout the College. Clearance from the Financial Aid Office is required. All students on

the College payroll must be in good standing. The off-campus jobs are posted on the Job Boards and are received from outside organizations during the academic year and summer. These jobs include work for a variety of community agencies and stores and summer camp experiences.

#### RESIDENCE **PROGRAM**

The purpose of the Residence Program is to provide living facilities for full-time undergraduate students and to provide educational programs and activities which supplement the academic mission of the college. The Residence Staff and the elected executive councils of the Resident Student Government Association strive to maintain an environment conducive to the individual's achievement of academic goals and development of self-reliance and leadership.

A referral service for off-campus housing is provided through the Residence Office. Students in need of off-campus housing may obtain listings of rooms and apartments available in the Towson area.

Priority for campus residence is given to students who reside beyond a twenty-mile radius of any four-year state institution. Priority for space assignment is given to students participating in the Living-Learning programs.

All resident students must sign a yearly contract for college housing. Acceptance to residence is on a yearly basis, and not for the duration of a student's college career. A student who withdraws from residence forfeits his reserve space but may reapply should he wish to return.

Residence facilities are available to students only when classes are in session. No student is permitted to remain in residence more than forty-eight hours after he has ceased attending classes.

Additional information may be found in the brochure, Housing at Towson State College, and the publication, Handbook for Residence Livina.

## CAREER PLANNING AND **PLACEMENT**

The Placement Office is a centralized service for all departments of the college. The purpose of the Placement Office is to assist all students of Towson State College in securing employment.

The Placement Office furnishes occupational and vocational information and provides career counseling for all interested students, arranges for an on-campus recruiting program to bring employers to the campus to meet the students, informs students of job opportunities, and keeps on file credentials for all students utilizing the services of the Placement Office.

## HEALTH SERVICES

Health Services are maintained in a modern two-story building located on campus. For specific information, the student is referred to the Health Center Booklet which is distributed to all new students.

For more serious illnesses, the student will be referred to his or her home or hospital for definitive treatment. With the student's knowledge and consent, the staff works closely with the parents and/ or family physician in all important illnesses or accidents.

The professional staff consists of college physicians, college psychiatrists, registered and practical nurses. Physician Services are available daily during office hours, and in emergency situations at any time.

A completed medical record is required of all students prior to the time of their admission. Certain exceptions may be made for

those applicants whose religious principles preclude compliance and whose affliation with a church is official. Additional examinations are given when conditions warrant. A student is expected to correct remediable defects as soon as possible, preferably before the opening of the college year.

Chest X-rays or other proof of freedom from tuberculosis (i.e. a negative tuberculin test) are compulsory for all entering students. Health education and prevention of illness and accident are essential parts of the college health program.

The College assumes no financial responsibility for illness of sufficient seriousness to require hospitalization, X-rays, or special treatment. The College does not assume financial responsibility for any injury incurred upon the athletic field or in any physical education class.

A student who has a physical condition which prevents complete participation in the regular physical education program may be permitted upon authorization of the College Physician and the Academic Standards Committee to take a modified program or to be exempt from physical education requirements.

#### Accident Insurance

For the benefit of those students who wish to participate, the College enters into an agreement with an approved insurance company to cover students against any accidental injury either at College or at home during the academic year. Participation in the plan is voluntary and costs approximately \$25.00 per year. Students desiring this coverage should make application at the Comptroller's Office.

#### COLLEGE CENTER

The complexity of society, campus bureaucracies, advances in communication, increasing enrollments, professional pressures on faculty, and changes within individuals are producing impersonal communities of intellectuals. The College Center facilities are designed to overcome the impersonalization of the large college, serving both as an educational center for out-of-class activities and also as a service center. The College Center as a program is organic, vital, changing, and alive. The Center houses educational and cultural programs of value for the entire academic community, which complement programs offered in the classroom. The Center is also the place where resident and commuting students, faculty, staff and alumni can establish their social activities, relax, and make the out-of-class time in their lives meaningful. The College Center displays, through its facilities and programs, to its various publics the character of the institution it serves.

The first level of the three-story brick structure includes a Snack Bar, Bookstore, Vending Area, Post Office, Dry Cleaning Service, Locker Rooms, Music and Study Lounge, T.V. Lounge, Billiards and Games Room, and eight bowling lanes. The second and main level of the building includes a Snack Bar, a Dining Room and Lounge, Art Gallery, spacious main lounge area, candy and tobacco counter, student organization offices, campus reservations offices, College Box Office, and College Center administrative offices. The third level of the building contains the Studies Skills Center, eight conference rooms, a photographic laboratory, a reception lounge, and a large multi-purpose room which is divisible into three sections. Covered deck areas, lobbies, patios, and fountains round out the Center. Catering services are provided throughout the center upon request.

Although many may come to the Center for food, it differs from other campus buildings in the following respects: Individuals for the most part must choose to come to the Center. The activities housed in the building are extra-curricular and voluntary. The students participating in special interest or governmental groups have an opportunity to experiment, assume responsibility, interact with the faculty and administration and by so doing come to know more about themselves and the College.

## College Box Office

The College Box Office Manager provides students, faculty, and administrators with a discounted ticket service to the local theaters. The manager will arrange for the purchase of any tickets for recognized groups on campus. The Manager also handles the student sponsored activity tickets and arranges for off-campus travel of student groups. Notary Public service and MTA bus token sales are handled through the Box Office as well as Greyhound Bus ticket sales to anywhere in the Continental United States.

#### Post Office

The Post Office is located on the first level of the College Center. All resident students and commuter students who desire are assigned a mailbox and combination to that box.

## College Book Store

The College Book Store is located in the College Center and carries a complete line of books, trade fiction, non-fiction paperbacks, reference, technical, and course outlines and aids.

Also for sale are general school supplies, typewriters, leather goods, college clothing, gifts, records, and toiletries. The College Store also carries a complete line of art supplies and a wide selection of arts prints. Framing materials are also available.

BankAmericard and Master Charge credit cards are accepted for personal charges at the store.

#### Recreation Center

The Recreation Center is located on the first floor of the College Center and is divided into two central areas of recreational activity. The Billiard Area, located in the upper level provides an extensive variety of leisure entertainment in the form of activities ranging from billiards and table tennis to coin-operated air hockey and amusement machines. The Bowling Lane Area, located in the lower level, is equipped with eight American Bowling Congress approved lanes and a snack bar facility.

The Recreation Center provides additional sport activities in the form of League competition; there are numerous Billiard and Bowling Leagues. Also provided is a complete newspaper subscription service, including out-of-town papers. The T.V. Lounge and Music Listening Rooms are located within the bounds of the Recreation Center.

## GOVERNMENT ASSOCIATION

The Student Government Association is the governmental organ of the student body. It is an integral part of the college community and is recognized as a contributing organization in the overall government of the College.

Upon enrollment at Towson, each full-time student automatically becomes a member of the SGA. The organization consists of an executive committee, composed of the President, Vice President and Treasurer of the SGA and various appointed officers, and a Student Senate composed of eighteen senators, 14 elected at large and one from each class.

The broad objectives of the SGA are outlined in the Preamble of the Student Government Association Constitution:

- 1. To improve student awareness and welfare.
- 2. To foster the recognition of the rights and responsibilities of students.
- 3. To responsibly fulfill those privileges of self-government.

The activities of the Student Government Association primarily concern the educational experience of the student, as a member of the College community, both in and out of the classroom. These activities are justified in a collegiate setting by the extent to which they contribute to the educational experience of each student. All students are invited to aid the SGA in their expressed goals and objectives.

The Student Government Association has most recently involved itself in such major activities as a Speakers' Series, Tutorial Project, and an Outstanding Faculty Grant Program.

## STUDENT **ORGANIZATIONS**

Groups of students may feel free to meet in campus facilities. In order to be recognized as a College organization, however, their constitution must be approved by the SGA.

Recognized student groups include music organizations, honorary societies and fraternities, organizations related to an academic field, political organizations, religious organizations, service organizations, social fraternities, athletic organizations, and special interest organizations.

All Student Organizations meet bi-weekly in a Council of Organizations whose purpose is to coordinate the activities of all the groups and to provide for more comprehensive planning.

Student publications are: Talisman, a literary magazine; Towerlight, the weekly official student newspaper; Tower Echoes, the yearbook; Gold and White, the official student handbook; the Journal of International Affairs; the Student Telephone Directory and the Who's Who of Student Leaders.

#### Athletic Activities

Towson State College is committed to comprehensive intercollegiate and intramural athletic programs for men as integral parts of the student's total educational experience. An opportunity is provided for all students who desire to participate. The College is a member of the National Collegiate Athletic Association and the Mason-Dixon Conference. The varsity schedules include many of the finest universities and colleges in the East. Competition on the varsity level includes football, soccer, cross country, basketball, wrestling, swimming, gymnastics, baseball, lacrosse, tennis, track and golf. Facilities and leadership are provided for intramural sports during all seasons. Students are encouraged to participate according to their interest.

The Women's Intercollegiate Athletics program, under the sponsorship of the Women's Physical Education Department, provides competition on a varsity and junior varsity level in basketball, field hockey, gymnastics, lacrosse, swimming, tennis and volleyball. Through its memberships in the Association for Intercollegiate Athletics for Women and the Eastern Association for Intercollegiate Athletics for Women, Towson has participated in state, regional and national championships.

The Women's Athletic and Recreation Association promotes an intramural and recreational program through a variety of activities and special events such as bowling, volleyball, dance, camping, archery, softball, and an annual banquet.



# Academic Regulations

#### REGISTRATION

Each student is assigned a time to register. Students are not permitted to attend classes without having completed registration. A late registration fee is assessed for registering after the time assigned and within the late registration period. Students are expected to discharge all financial obligations to the institution before being permitted to register.

#### TRANSFER CREDIT

Credit is accepted by Towson State College for a course completed at any regionally accredited college or university. This credit will count toward graduation but will not be used in computing the academic average required for graduation.

Students with 64 or fewer credits at the completion of the work taken for transfer credit may take courses at any regionally accredited educational institution (two or four year institutions).

Students with more than 64 and less than 90 credits at the completion of work taken for transfer may take courses at any accredited four year institution.

Courses must be in programs offered at Towson State College. Courses must not have been previously accepted for transfer credit or completed for credit at Towson State College.

A grade of "C" or higher must be attained for students electing or required to graduate under the 120 credit graduation policy.

Students may not transfer more than 64 credits to Towson State College from a two-year institution.

Students taking courses as part of the last 30 credits required for graduation or for major credit must obtain prior approval of the Towson State College Academic Standards Committee.

Students taking courses for credit toward the major must obtain prior approval of the Department of the major.

#### CREDIT HOURS

The unit of credit is the semester hour. It is defined as one 50-minute class per week (or its equivalent) for one semester. A three-hour class meets three 50-minute periods or two 75-minute periods a week for one semester. Laboratory and studio classes normally require two or three hours in class as the equivalent of one semester hour. Two hours of preparation is usually necessary for each hour in class for the average student.

#### PROGRAM TRANSFER

Students in good standing in either the teacher education or the arts and sciences program may transfer to the other program by filing a request form with the Registrar, as Secretary to the Academic Standards Committee. Upon approval of the Academic Standards Committee, the transfer will be effective for the semester following the one in which the request is made.

Those wishing to transfer to the arts and sciences program will be obligated in the amount of \$100 for each semester of work completed in the teacher education program if the teaching pledge was signed in lieu of tuition payment.

## EXEMPTION FROM REQUIRED COURSES

Believing that students should not be required to devote time to courses the substances of which they have mastered, the College provides opportunity to qualify for exemption from required courses. Towson sudents may apply through the appropriate academic depart-

ment to be examined for exemption from courses required of all students and those required in a major field. When exempted, the student is privileged to choose an elective in any department or an advanced course in the same department. Required courses in the following fields are at present involved in this plan: biology, English, geography, mathematics, music, speech, history, political science, and sociology. Credit for Experience and previous Learning is an option also open to students. See Admission, page 11.

#### STUDENT LOAD

The normal student load is 15-18 semester hours of credit each semester.

Students may take up to 19 semester hours for credit. It is suggested that students possess a minimum cumulative average of 2.00 to take 18 semester hours and a cumulative average of 2.50 to take 19 semester hours.

Students with a 3.25 cumulative average based on at least 30 hours taken at Towson State College may carry 20 hours. In his last semester of his senior year a student may carry 20 semester hours provided the number is necessary to be graduated and provided his cumulative average is 2.50 or better.

Students with a 3.50 cumulative average or better, based on at least 30 hours taken at Towson State College may carry 21 hours.

No student will be permitted to carry more than 21 hours or less than 12 hours except by special permission of the Academic Standards Committee.

Students must have the approval of the Registrar to register for more than 19 semester hours during any one semester.

#### **AUDITING** COURSES

A student may audit a course with the permission of the instructor of the course. No credit may be earned in a course which is audited. Audited courses will not appear on the student's record. Students who wish to take the course for credit may do so only during the Change of Schedule Period as an added course.

## CHANGE OF COURSE SCHEDULE

All changes in a student's schedule of courses (adding or dropping a course or a change in sections or credits) are valid only if the student completes the Course Schedule Change Form and files it with the Registrar. Failure to do so will result in a grade of "NC" in the course dropped and no credit in the course added. The grade will appear on the Grade Roster of the course, the student's Permanent Record.

No student may enter a class after the first week of classes. Exceptions to this will be considered only after approval of the department chairman of the course involved and the Dean of the College.

Entering freshmen wishing to obtain waiver of courses for the honors plan may arrange to take Advanced Placement Tests of the College Entrance Examination Board in fields in which they feel qualified. Arrangements to take these examinations in May of the high school senior year may be made through the school counselor or through the College Entrance Examination Board, P. O. Box 592, Princeton, New Jersey.

## WITHDRAWAL FROM A COURSE

Students wishing to drop a course may do so as follows:

Students may drop up to the end of the first two weeks of classes and no grade will be recorded.

Students who have not dropped a course at the end of the first two weeks of classes may withdraw from a course up to three weeks after the mid-semester date. Students withdrawing during this period will have the grade of "W" recorded for the course. This grade may be removed by repeating the course.

Students registered for a course who do not drop or withdraw during the periods referred to above must receive grades of A, B, C, D, NC or I as determined by the faculty member.

CLASSIFICATION OF STUDENTS Students are classified according to the number of semester hours passed as follows: freshmen, 0-28 semester hours; sophomores, 29-55 semester hours; juniors, 56-89 semester hours; seniors, 90 semester hours or above.

MARKING AND POINT SYSTEM FOR STUDENTS EFFECTIVE SEPTEMBER 1974 A four-point system is used to identify quality of academic work. The letter "A" designates work of superior quality; "B", work of good quality; "C", work of satisfactory quality; "D", work of less than satisfactory quality but allowable for credit, subject to the restrictions under the Degree Requirements; "NC" (No Credit), work of such unsatisfactory quality that no credit is given. Grades of "PA", "PE", "S" are equivalent to a grade of "C" or higher. The grade of "S" (Satisfactory) or "NC" is assigned for non-credit courses or student teaching. The grade of "PA" (Pass) or "NC" (No Credit) is assigned for the courses elected on the Pass Option. The grade of "PE" is assigned for courses passed under the Credit for Experience or Previous Learning option. All grades are recorded on the student permanent record.

A mark of I, (incomplete because of illness or other reason beyond control of student) at the end of a semester carries no credit. Unless such a course is satisfactorily completed within six months of the last day of class for the course, the grade for the course becomes "NC". It is the responsibility of the student to make arrangements to complete course requirements for the removal of the "I".

In computation of grade point averages the following quality point values are used:

C-2 quality points A—4 quality points B—3 quality points D-1 quality point

Grades of "I", "NC", "PA", "PE", "W" and "S" are not used in computation of averages.

The grade-point average is computed by multiplying the hours of credit in a course by the points assigned to the grade earned in the course. Totaling the credit hour points for all courses passed in the semester, and dividing the total number of points by the total number of hours of credit passed yields the grade-point average for the semester. For example:

4 hours of A (4 points each) \_\_\_\_16 points 4 hours of B (3 points each) \_\_\_\_12 points 3 hours of C (2 points each) \_\_\_\_ 6 points 3 hours of D (1 point each) \_\_\_\_ 3 points

2 hours of NC (No Credit Given)

14 Total hours passed 37 Total points

Dividing 37 by 14, the student's grade-point average for this semester is found to be 2.64.

The student's cumulative grade-point average is found by dividing the total points earned in all courses completed at Towson by the total number of credit hours passed (including hours attempted prior to 1 September 1970) at Towson. For example: a junior has

passed 76 credit hours and has earned a total of 190 points. His cumulative grade-point average is 2.50.

A cumulative grade-point of at least 2.00 is required for graduation.

## STANDARDS OF WORK REQUIRED

## Philosophical Premises

Academic Standards are set to insure that a degree from Towson Signifies student work meeting or exceeding a particular level of excellence.

The intent is to reinforce appropriate learning behavior, and to help the student work independently and develop intellectually in a variety of ways.

## Repeating of Courses

Students may repeat any course only once where credit has been earned or a mark of "NC" or "W" has been awarded. When the course is repeated, the student will receive the credits for the course counted once and the higher of the two grades if repeated for the first time after 1 September 1970. Students repeating courses must indicate this at the time of registration. Upon completion of the repeated course a change of grade form must be submitted to the Registrar by the student concerned. The lower of the marks earned is not maintained on the student permanent record. Courses taken for which credit is received with a letter grade may not be repeated under the pass/no credit option.

## STANDARDS FOR **FULL-TIME STUDENTS**

In order to remain in the college, a student must possess the required minimum credits in relation to semesters of study as indicated in Table I and have a cumulative point average as indicated in Table II.

Table I REQUIRED MINIMUM CREDITS THAT MUST BE PASSED IN RELATION TO SEMESTERS OF STUDY

	Required Minimum
Semester of Study	Credits Passed
Two	18
Four	40
Six	66
Eight	96
Ten	Degree requirements
	must be completed

Table II MINIMUM GRADE POINT AVERAGE TO BE IN COLLEGE

		Minimum Level
Credits	Minimum GPA	of Satisfactory
Passed	To Be in College	Progress
1-15	1.00	1.85
by 20	1.25	1.85
by 30	1.50	1.85
by 40	1.67	1.95
by 50	1.78	1.95
by 64	2.00	2.00

## TRANSFER **STUDENTS**

The expected minimum number of credits passed for transfer students will be determined by dividing the number of credits transferred in by 15, rounding the answer to the nearest lower whole number, and relating it to Table III. (Required Minimum Credits Passed for Transfer Students) For instance, a student transferring

64 hours would start at the 4 Semesters of Study point on the scale (64 divided by 15 = 4.27). To meet the minimum credits passed after two semesters of study, he would be expected to have passed 66 credits at the end of six semesters of study.

In addition, at the end of the first semester, transfer students must earn a grade point average as shown in Table II above based on total credits passed. However, no student will be required to earn more than a 1.50 grade point average during the first semester. In succeeding semesters a transfer student must attain a grade point average as shown in Table II. (For instance, a student who is required to have earned 52 credits at the end of two semesters at Towson should be required to have earned a 1.78 or better at that time to remain at Towson.)

Table III REQUIRED MINIMUM CREDITS ACCUMULATED FOR TRANSFER STUDENTS

	Required Minimum
Semester of Study	Credits Accumulated
1	9
2	18
3	28
4	40
5	52
6	66
7	80
8	96
10	Degree requirements
	must be completed

STANDARDS FOR FULL-TIME STUDENTS **ADMITTED** SEPTEMBER 1974 AND THEREAFTER

In order to remain a full-time student in the college, a student must possess the required minimum credits in relation to semesters of study as indicated in Table I and have a cumulative grade point average as indicated in Table II.

Table I REQUIRED MINIMUM CREDITS IN RELATION TO SEMESTERS OF STUDY

	Required Minimum
	Credits (with grades
Semester of Study	of A,B,C,PE,PA, and S)
Two	12
Four	34
Six	60
Eight	90
$\mathbf{Ten}$	Degree requirements
	must be completed

Table II MINIMUM GRADE POINT AVERAGE

		Minimum Level o
		Satisfactory
Credits	Minimum GPA	Progress
1-15	1.50	2.00
by 20	1.65	2.00
by 30	1.77	2.00
by 40	1.85	2.00
by 50	1.90	2.00
by 60	2.00	2.00

## TRANSFER STUDENTS ADMITTED SEPTEMBER 1974 AND THEREAFTER

(Initial entry as a degree candidate into college prior to September 1974. see table III above.) The minimum number of credits accumulated with a grade of "C" or higher for transfer students will be determined by dividing the number of credits with a grade of "C" or higher transferred in by 15, rounding the answer to the nearest lower whole number, and relating it to Table III. (Required Minimum Credits Accumulated for Transfer Students). For instance, a student transferring 33 hours would start at the 2 Semesters of Study point on the scale (33 divided by 15 = 2.20). To meet the minimum credits accumulated after two semesters of study at Towson, the student must have accumulated 34 credits with a grade of "C" or higher at the end of four semesters of study.

In addition, at the end of the first semester, transfer students must earn a grade point average as shown in Table II above based on total credits accumulated. However, no student will be required to earn more than a 1.50 grade point average during the first semester. In succeeding semesters a transfer student must attain a grade point average as shown in Table II. (For instance, a student who is required to have earned 52 credits at the end of two semesters at Towson must have a grade point average of not less than 1.90 at that time in order to remain a fulltime day student.

Table III REQUIRED MINIMUM CREDITS ACCUMULATED FOR TRANSFER STUDENTS

	Required Minimum
	Credits (with grades
Semester of Study	of A,B,C,PE,PA and S)
1	6
2	12
3	22
4	34
5	48
6	60
7	74
8	90
10	Degree requirements must be completed

#### PASS OPTION

Students will be able to elect on a voluntary basis 12 credits toward their degree for which they may be graded on a pass/no credit basis. No more than six hours per semester can be taken on a pass/no credit basis. This option is not available for courses required for the major and for certification in Teacher Education unless special permission is sought from the department. The option must be elected during the first two weeks of classes. The Registrar will make this information available to the instructor upon request.

#### PROCEDURES FOR REINSTATEMENT

Those no longer in good standing may appeal for reinstatement. In most cases students who are dismissed for academic purposes will be expected to remain out of the day school for two semesters. Those students who bring their cumulative average up to the credits completed and GPA Norm by taking courses in the Evening, Summer Program and January Session are eligible for reinstatement; however, a student must take courses in which letter grades are given in order to have this work apply before the completion of the one year period. A student must achieve an average of 2.00 on all work taken during the period of academic dismissal. Up to 18 credits can be taken in the Evening and Summer Program for this purpose. Deadline for readmission is 15 July and 15 November.

In evaluating requests for reinstatement, the Academic Standards Committee, without changing previous policies, will weigh heavily an indication of improved performance. The personal development of each student is considered. The College may exercise its right to ask a student to withdraw at any time.

DEGREE
REQUIREMENTS
FOR STUDENTS
ADMITTED
SEPTEMBER 1974
AND THEREAFTER

## Bachelor of Arts Degree

Those wishing to qualify for a Bachelor of Arts degree in lieu of the Bachelor of Science degree may do so by fulfilling the requirements for the Bachelor of Science degree and by completing the intermediate course or the equivalent of a modern foreign language.

## Bachelor of Science Degree

A student who satisfactorily meets the following requirements will receive the Bachelor of Science degree.

- 1. A minimum of one hundred twenty hours and a maximum of one hundred thirty-five hours of college credits with the grades of A,B,C,PE,PA, or S which must include Freshman Composition or its equivalent and thirty-two hours of upper division work.
- 2. Credit in the courses required of all students, of which Freshman Composition or its equivalent must be passed with a grade of C or higher.
- 3. Credit in the required courses of the curriculum the student has elected.
- 4. Successful completion of a major except for those in Early Childhood or Elementary Education Program.

With prior approval of the Standards Committee, a student may substitute an interdisciplinary program designed to meet his/her particular objectives.

A mark of "C" or higher is required in all courses taken in the department and applied toward the major or minor of that department. If this standard is not attained, the student must repeat the course or substitute another course in the field at the direction of the department.

- 5. A cumulative average of at least 2.00.
- 6. Record of attendance at the College for at least one academic year during which thirty semester hours of credit were earned. A student must earn the final thirty credits at the College unless permission is granted by the Academic Standards Committee to earn the credits at another institution.
- 7. Demonstration of personal qualities which are expected of an educated person.
- 8. Filing with the Registrar a Graduation Application according to to following schedule:

December Graduates: file by May 31st of the year of graduation. June Graduates: file by September 30th of the year of graduation.

August Graduates: file by July 1st of the year of graduation. A student who entered a college as a degree candidate September 1972 and thereafter must earn a minimum of 32 hours of upper division work as one of the requirements for graduation at Towson State College.

## GENERAL COURSE REQUIREMENTS OF ALL STUDENTS

The general college requirements went into effect in September 1974, and affect all incoming freshmen and transfer students. However, Towson State College returning students have the option of remaining on the plans under which they were admitted providing no more than seven years has lapsed since initial admission or electing to follow the new plan.

All students are reminded that the adoption of a new set of General College Requirements does not change their departmental requirements, or the requirements for State Certification of teacher education students. Students should consult their advisors if they have any questions regarding their degree programs.

## Group I

Art, Communication Arts and Sciences, English\*, Modern Languages (the first semester of any elementary course cannot be used). Music, Philosophy and Religion, Theatre Arts (at least two courses must be taken in English; courses must be completed in at least four different disciplines).

Number of One-Semester Courses 6

## Group II

Biological Sciences, Chemistry, Mathematics, (including Computer Science) Physics, Psychology (courses must be completed in at least three different disciplines).

Number of One-Semester Courses 3

## Group III

Anthropology, Economics, Geography, History, Political Science, and Sociology (courses must be completed in at least three different disciplines).

Number of One-Semester Courses 4

## Group IV

Health Science, Physical Education (at least one course must be in Physical Education).

Number of One-Semester Courses 2

- \* English 30.102, Freshman Composition (or equivalent) must be completed with a grade of "C" or higher to meet graduation requirements.
- \*\* At least one hour of credit in each course must be earned.

OPTIONAL GENERAL COLLEGE REQUIREMENTS PLANS

- A. Optional general college requirement plans are permissible under certain circumstances when approved by the Curriculum Committee. Additional information available in the Office of the Registrar.
- B. Transfer students with 56 credits or more at the time of admission will be given credit for having met the general requirements of the College provided *all* of the following conditions are met:
  - 1. The student transfers from the sending institution with a minimum of 39 semester hours credit, or 15 one-semester courses, in the Arts and Sciences.
  - 2. Courses are taken in a minimum of 10 of the following disciplines.

Art
Communications Arts
and Sciences
English
Modern Languages
Music
Philosophy/
Religion
Theatre Arts
Biological Sciences
Chemistry

Physics
Psychology
Anthropology
Economics
Geography
History
Political Science
Sociology
Health Science
Physical Education

Mathematics

3. With reference to Towson's General Course Requirements of all students see page 33. Courses were taken in two disciplines each in Groups I, II, and III, and one course in Group IV.

Transfer students who have not completed the general college requirements under this option at the time transfer is made will be required to comply with the general requirements for native students at Towson State College.

#### ATTENDANCE

Students are expected to attend all classes. Each faculty member sets his own policy on absences. Policies vary and it is the responsibility of the student to understand clearly the absence policy of each instructor and to act accordingly. Students are expected to notify the Health Center by phone or in writing of any absence exceeding three days.

### LENGTH OF ATTENDANCE

Only in unusual cases may a student who has completed degree requirements remain in the College for longer than eight semesters. Any requests for deviation from this plan must be submitted to the secretary of the Committee on Academic Standards.

## WITHDRAWALS

A student wishing to withdraw from the College is to obtain a withdrawal card from the Office of the Dean of Students. Before the withdrawal is official, the student must submit the completed withdrawal card to the Office of the Registrar.

## SEMESTER OF STUDY

Each semester a student registers and has not cancelled or withdrawn prior to the first day of class counts as a semester of study.

Withdrawal for medical reasons or entry into the Armed Forces will not count as a semester of study. The student must inform the Registrar upon readmission in such cases and present evidence of reason for withdrawal.

Those students withdrawing from the College who intend to return must comply with the deadlines established for readmission -15 July for the fall semester and 15 November for the spring semester.

## **TRANSCRIPTS** OF ACADEMIC RECORD

Transcripts will be sent only upon written request of the student. Transcript request forms may be obtained at the Office of the Registrar. The College requires at least two weeks notice for issuance of a transcript record. A fee of \$2.00 will be assessed for each request.

A student with an outstanding indebtedness to the institution will not be eligible for transcripts of record.

## HONORS PROGRAMS

Under the direction of a College Honors Programs Board, a number of departments of the College offer Honors Programs in their disciplines or cooperatively offer interdisciplinary Honors Programs. The student who completes an approved program will receive a diploma with the designation Bachelor of Arts or Bachelor of Science with honors in the appropriate discipline.

The program is developed for the junior and senior years and includes 9 to 12 semester hours credit in seminars, directed readings, and research projects. A senior thesis is required as well as an oral defense of the thesis. A candidate will also be expected to make a respectable showing on the Graduate Record Examination.

To be admitted to the program a student must present a cumu-

lative average of 3.25 and a 3.50 cumulative average in his discipline. To graduate from the program the recipient of an Honors degree must present a 3.25 cumulative average and a 3.5 cumulative average in his discipline.

Details of the departmental plans may be obtained from the office of the department chairman.

The Dean's List is published following the completion of each fall and spring semester. Students who are degree candidates and complete a minimum of 12 semester hours for credit in regular grade granting courses with a semester average of 3.50 or higher will be so honored.

## Graduation with Honors

To receive a bachelor's degree with honors, a student must have completed work taken at Towson State College with the following cumulative grade point average:

> 3.75 to 4.00 Summa Cum Laude 3.50 to 3.74 Magna Cum Laude 3.25 to 3.49 Cum Laude

Students must have, in addition, a 3.25 or better average for work completed at other institutions and a minimum of 56 semester hours of work at Towson State College. If students meet all other requirements, the Academic Standards Committee will hear an appeal of the 56 semester hour rule.

Transfer students eligible for Summa Cum Laude awards based on work completed at Towson State College must be approved by the Academic Standards Committee.

To receive a bachelor's degree with honors in a discipline, a student must have completed a departmental honors program and be recommended for honors by that department.

Students who do not qualify for honors because of their overall GPA may petition the Academic Standards Committee if they meet the following criteria:

> "A student who in his/her last 60 credits at Towson State College attained a cumulative average of 3.50 or higher."

The student who is approved for graduation honors listed above will receive the Cum Laude honor from Towson State College.



# The College Curriculum

#### THE ARTS AND SCIENCES PROGRAM

The arts and sciences program at Towson offers opportunities of higher education to those who are interested in obtaining a broad, liberal education. Students in the arts and sciences program may pursue courses leading to further preparation for a variety of careers. In some professions, such as law and medicine, it is usually advisable to complete a four-year liberal arts course before beginning professional study. In others, students should plan to transfer to a professional school after one or two years, unless the professional school's admission plan permits a longer period of preprofessional study.

Those who decide it is appropriate to enter professional study should study carefully the catalogue of the institution which they wish to attend in order that they may select the Towson courses required for admission to the professional program.

A foreign language should be elected by those wishing to earn a Bachelor of Arts rather than a Bachelor of Science degree.

The following paragraphs outline how the liberal arts curriculum can provide basic preparation for several professions or vocational fields. Students may obtain further information from their advisers and from the chairman of the department in which the major or most of the preparatory study is to be taken.

Students who look forward to graduate work should make early selection of the school they hope to enter in order that they may meet the entrance requirements of the chosen institution. Current catalogues of graduate and professional schools are on file in the Admissions Office. The Dean of the College has additional data on opportunities for advanced study, including available fellowships and scholarships.

#### Business

A four-year course in business administration is offered to the individual who is interested in a business career or who wants a business background for admission to a graduate or professional school.

## College Teaching

The future college professor should build a strong undergraduate major in his chosen field and prepare for graduate study leading eventually to the Doctor of Philosophy degree. Inquiry should be made at several graduate schools with a view to meeting their entrance requirements. Preparation for reading proficiency in French or German should be begun as soon as possible in the undergraduate program.

## Foreign Service

A student considering a career in the Foreign Service of the Department of State, or other overseas programs should plan a curriculum emphasizing a good general education, with particular attention to the use of the English language with skill and fluency, to a foundation in economics, geography, government and modern

history, and to reading with comprehension and conversing with intelligibility in at least one modern foreign language of general utility. The Department of State now requires of all candidates both a written and oral examination in French, German, or Spanish. Mastery of additional foreign languages enhances a candidate's value to the Service.

## Conservation, Wildlife and Forestry

Broadly educated persons interested in outdoor life and possessing a strong background in the biological sciences are desired by government, industry and universities having graduate programs in these areas. Programs of study may be planned with the aid of the biology department in accordance with the needs of the student.

### Environmental Science

Students with an interest in a career in environmental science should consider a biology or geography major if their primary interest is in ecology, a chemistry major if their primary interest is in pollution, or a mathematics major or physics major if their primary interest is in material transport or model systems. A broad background in biology, chemistry, geography, geology, mathematics (esp. computer science) is essential for a career in environmental science. The student interested in this field might also consider the General Studies major with a thematic option or a natural science major and is advised to consult with interested faculty in the above-mentioned departments regarding this possibility.

## Mass Communications

Students interested in careers in broadcasting, journalism, film or public relations are able to select a Mass Communications major. This major provides the student with a broad background upon which they can then specialize. Additional courses in various liberal art fields such as the Social Sciences, Psychology, History and English are desirable.

#### Law

Students interested in admission to a law school should make an excellent academic record in a wide variety of liberal arts courses. Their preparation should develop the ability to write, speak, and understand clearly, but preparation in any particular field can be left to the particular interest of the individual student. Therefore, a "major" in "pre-law" appears ill-advised and it is recommended that students interested in admission to law schools contact the pre-law advisor in the department of Political Science and discuss with him whether in their particular case an existing departmental major is advisable or whether it might be better that a liberal arts major with the thematic option of "pre-law" be worked out to fulfill the students particular needs and interests.

In general, students who have a definite interest in entering the legal career should become members of the "pre-law council," where they can discuss their objectives and needs with interested faculty members and fellow students. They can cooperate in this manner to foster a better general understanding of our legal system in other students and in the college community. The "pre-law council" will also attempt to keep its members current on conditions for admissions to law schools and on any career questions which might be of interest.

## Library Work

Prospective librarians should plan for a four-year program of arts and sciences followed by a one-year graduate course in a school accredited by the American Library Association. A good undergraduate record and a reading knowledge of at least one foreign language are customary requirements for admission to a degree program in library science. Prospective librarians may prepare for positions in which they would work primarily in the subject matter area of their special interest.

## Medicine and Dentistry

A student expecting to graduate from Towson State College before entering professional school can meet the general admission requirements of medical and dental schools by completing a major in biology, including two years of chemistry. The student is advised to determine additional requirements of specific professional schools by consulting relevant catalogs, or conferring with a member of the Biology Para-Medical Committee. Suggested science courses for the first year are: Contemporary General Biology, General Chemistry, and Math. Scheduling beyond the first year should be arranged in consultation with a para-medical advisor.

		First Year		
			Hou	rs
Engl	30.102	Freshman Composition		3
Biol	14.101	Contemporary General Biology		4
Biol	14.109	Functional Anatomy of Vertebrate.		4
Chem	22.101-102	General Chemistry		8
		Modern Language		
		*Electives	_ 2 to	6
		Total	32 to 3	31
		Second Year		
			Hou	rs
Engl	30.204-205	Literature		6
		Modern Language		6
Phys	66.211-212	General Physics		8
Chem	22.231-232	Organic Chemistry		8
		*Electives	_ 2 to	6
		Total	32 to	34
Т		ole blueds wheelends lead bould also		114

Prospective medical and dental students should also consult with a biology faculty member as early as possible upon admission to Towson to plan a course program to meet the admission requirements of the professional school chosen by the student.

## Ministry

In addition to complete devotion to his vocation, the prospective minister, priest, or rabbi should process or acquire academic ability,

<sup>\*</sup>Electives chosen from such courses as College Algebra; History of Western Civilization; Introduction to Sociology; Government of the U.S.; Health Educ.; Public Speaking; Modern Lang.; Art in the Culture; Music Appreciation; General Psych.

sympathy for and skill in working with people, facility in writing and speaking, and broad knowledge in several fields. As a college student he should be active in his church or synagogue and in a campus religious organization. A four-year course in arts and sciences is required for admission by most theological schools. Most of the eight or more years of study for the Roman Catholic priesthood takes place in a seminary. More information may be sought from the student's minister, priest, or rabbi.

## Medical Technology

A student interested in Medical Technology should consult with Dr. Carl Henrikson, Biology Department, as early as possible upon admission to Towson to plan the program required. For description of the program, see Biology Department.

For those taking pre-professional work prior to studying medical technology, a three-year course leading to a biology major is the recommended minimum. This is followed by twelve months of clinical training in a hospital.

## Nursing

The Department of Nursing offers a baccalaureate program for preparation of the professional nurse practitioner. Graduates of the College with a major in Nursing receive the Bachelor of Science Degree and are eligible to take the examination offered by the Maryland State Board of Examiners of Nurses for licensure as a Registered Nurse.

The four-year program provides for completion of the College's general education requirements; foundational courses in the physical, biological and social sciences, as well as the nursing offerings. The latter are heavily concentrated in the Junior and Senior years and include both classroom and clinical learning opportunities.

For additional information concerning the program, refer to Nursing Department.

#### Personnel Work

Personnel work in educational institutions and psychological testing positions may sometimes be entered directly from college, but a graduate degree is usually required. Personnel work is a field in which work experience is important, particularly in industry and business, and one in which there is keen competition for starting positions. In addition to the general college requirements, the following suggestions are made: a major or minor in psychology, courses from the following areas: sociology, economics, and political science.

## Occupational Therapy

Occupational Therapy is a health profession which utilizes selected activities in promoting optimal performance in the areas of work, play and self care. Individual performance components such as intellect, motor functioning, self concept interpersonal skills and sensory perception are evaluated in order to assist the client patient in learning those skills essential to health productivity.

The occupational therapy major was initiated as a four-year professional program within the Health Sciences Department in

1975. It combines a liberal arts education with professional academic training and at least seven months of clinical experience in physical disabilities and psycho-social dysfunction.

## Pharmacy

Although many applicants to a Pharmacy School already have attained a baccalaureate degree, admission is feasible after completion of a total of sixty (60) semester hours of credit.

The basic requirements for admission to a pharmacy school would include:

- 1. Minimum average of 2.50
- 2. Pharmacy College Admission Test (PCAT)
- 3. The following required courses: English (6); Math (6); Biology (4); Physics (8); Chemistry (16-18).

The typical two year pre-professional program would be:

	First Year	Credits
22.101-102	General Chemistry	8
50.115-116	Mathematics	
14.101	Contemporary General Biology	4
30.102	Freshman Composition	3
	Electives	9
	Second Year	Credits
66.211-212		0.00000
66.211-212 22.331-332	Second Year  General Physics  Organic Chemistry	8
	General Physics	- 8 - 10
22.331-332	General PhysicsOrganic Chemistry	8 10 3

Electives include courses such as: Precalculus, Introduction to Sociology; Physical Education; Health Education; Public Speaking; Modern Language; Art in the Culture; Music; General Psychology; Botany; Computer Programming.

A student interested in pharmacy as a professional career should consult with a pharmacy advisor of the Chemistry Department upon admission to Towson. The student needs to plan a course program, to decide upon a declared major, and to become cognizant of the admission requirements of the pharmacy school that he/she chooses.

## Physical Therapy

The minimum requirements for admission into an approved school of physical therapy is sixty credit hours of college work, including eight credit hours in biology or zoology, six credit hours of college work, including eight credit hours in biology or zoology, six credit hours in physics and/or chemistry, and six hours in psychology. A list of approved schools and their admission requirements may be obtained from The American Physical Therapy Association, 1790 Broadway, New York 19, New York.

## Public Administration

A student expecting to enter some field of public service (such as federal, state or local governmental organizations as administrators) should choose a major in the social science area suited to his objectives. Courses in political science, economics, sociology, psychology and business administration are recommended.

## Social Work

Although social welfare agencies employ many individuals who have a four-year college education, leaders in the field consider two years of graduate education desirable. Undergraduate courses suggested include economics, political science, history, psychology, sociology, statistics, biological sciences, literature, public speaking, and news writing. Volunteer service with youth serving organizations and summer employment in social agencies are recommended for the college student interested in this vocation.

## THE TEACHER **EDUCATION** PROGRAM

Towson has been preparing teachers for the public schools of Maryland for more than one hundred years. Out of this long experience have come the present three programs for teachers, directed toward three levels; early childhood education (pre-school through the third grade), elementary (first through sixth grades), and secondary (seventh through twelfth grades). Recently a program has been developed to prepare teachers for middle schools.

Professional education courses, comprising about twenty percent of the four years' work, consist of approximately two-thirds classwork at the College and one-third laboratory experiences, including student teaching in the classrooms of public school systems. Prior experience with children is strongly recommended for those seeking admission to student teaching.

Approximately forty percent of the college program is given over to studies of a general nature - in the humanities, the social sciences, and the natural sciences — providing a well-rounded college education. Certain basic courses are required, assuring foundations in all broad areas of knowledge; but even among these there are frequent choices, and beyond them is the opportunity for electives that make possible the pursuit of special interests.

The balance of the four years' work, approximately forty percent, is given over to electives which permit the student to develop competency in the field in which he will eventually teach or to pursue his special interests.

In general a student with a minimum of a 2.0 cumulative average is eligible to enter student teaching when (a) he has completed the required freshman and sophomore courses; and (b) he has completed all professional prerequisites. He must in addition have the approval of the Director of Laboratory Experiences to enter and remain in the student teaching program.

The teacher education program may lead directly to positions such as: nursery and kindergarten teaching, primary grade teaching, upper elementary teaching, middle school teaching, junior and senior high school teaching, college teaching, special educational teaching, guidance work in schools, and librarianships in schools and public libraries.

With experience and additional training, graduates of the teacher education program may become administrators such as supervisors, principals, and superintendents.

Other vocations and areas of work in which teacher education graduates enter include: social work, religious education (including the ministry of education and the ministry of music), personnel

work, recreation work, educational TV, audio-visual education in the schools and in business and industry; industrial education, programmed instruction in business and industry as well as in the schools, the field of testing in education and in business and industry, and educational positions in governmental agencies.

Required courses for each area and suggested course sequences are listed under each area in the Education Department course descriptions.

## **Teaching Certificates**

Each graduate of a teacher education program at Towson will be qualified for Maryland certification at the early childhood education, elementary, or high school level. Early childhood education graduates may teach nursery school, kindergarten, and grades one, two, and three. Elementary education graduates may teach grades one through six and they may teach an academic subject in grades seven, eight, or nine, provided they meet the content requirements for a secondary school certificate in this subject. Secondary school graduates may teach in grades seven through twelve, and grades six when departmentalized. The Standard Professional Certificate is issued for three years at graduation and is renewable for seven years upon completion of six semester hours of graduate or advanced undergraduate courses. Because the Education Division of Towson State College has received NCATE Accreditation and approval by the Maryland State Department of Education, Towson graduates are qualified for certification in thirty-three states throughout the country.

The Towson graduate program affords opportunity to qualify for the Advanced Professional Certificate. Thereafter a master's degree or "equivalent" is required for the Advanced Professional Certificate. Certification to teach in Baltimore City is based in part upon the passing of a professional examination.

## General College Requirements for Bachelor's Degrees

All degree programs of the College are based upon a fundamental background of general studies. Work in four area disciplines of liberal arts or general education courses are required of all students working toward the Bachelor of Science or Bachelor of Arts degrees. Additional courses in general education are required of prospective early childhood and elementary school teachers; but it is possible, and sometimes desirable, to pursue a major in an academic field. Students pursuing a program in secondary education are required to complete a major in addition to required education courses.

## Specialization

A major in an academic field is earned by completing about eight courses, generally, beyond the basic required courses in the chosen field—or about 36 credit hours of work, the exact amount being set by the various departments. Three possible benefits make the pursuit of a major course of study desirable: it prepares the student for graduate study in the field; it prevents a possible too-wide dispersion of effort which would result in a lack of real competency in any branch of knowledge; it qualifies the graduate from the teacher education program to teach the subject in junior and senior high schools.

Students may select a major or approved department program from one of the following fields; art, business administration, biology, chemistry, economics, elementary education, elementary school science, English, geography, history, high school science, early childhood education, mathematics, modern foreign languages, music education, physical education, physics, political science, psychology, philosophy, sociology, social science, speech and dramatics, speech education. The required courses for programs are listed with department course descriptions.

Students are responsible for meeting in full the requirements for graduation as set forth in the College Bulletin. When the requirements are changed after a student has enrolled in the College, the student has the option of meeting in full the graduation requirements that were in effect at the time of his initial college enrollment as a degree candidate or those that are in effect at the time of graduation, if graduation occurs within seven years of date of admission. If the student does not complete graduation requirements within seven years, he must meet the requirements in effect for his graduating class. When the College withdraws former required courses, the Standards Committee will approve substitutions for students graduating under the former requirements. The student's advisor assists in the planning of a program, but the final responsibility for meeting the requirements for graduation rests with the student.

#### FOREIGN STUDY

Students with upperclass standing desiring to pursue study in a specialized academic area at a college or university outside the United States must make application and obtain College approval for the study program. The appropriate form for making application may be obtained at the Registrar's Office. Approval is gained through the department chairman of the academic area involved, who will assist the student in the selection of a program satisfactory to the department. For final approval, the department chairman will forward the proposed program to the Academic Standards Committee through the office of the Dean of the College, After the student has returned to the College, transfer credit for a program of study undertaken outside the United States will be granted only upon recommendation of the department chairman and after an evaluation has determined the student's successful completion of the program.

#### THE COOPERATIVE **EDUCATION PROGRAM**

The Cooperative Education Program at Towson State College is designed to foster an interchange of students between Towson State and the other State Colleges of Maryland as well as other institutions of higher learning in the Baltimore Metropolitan area. The institutions included in the program are the State Colleges at Bowie, Coppin, Frostburg, Morgan, Salisbury, and the University of Maryland, Baltimore County; and the private colleges, Goucher and Loyola, Johns Hopkins. The program is also designed to allow students to take courses not ordinarily available at Towson as well as study under eminent professors in residence at other institutions. Students are encouraged to develop their academic curriculum with the Cooperative Education Program as an important part of their plans.

There are no additional costs to the student to participate in the Cooperative Program.

Students desiring information concerning the Cooperative Edu-

cation Program should consult with the Coordinator of the Cooperative Education Program. Cooperative Education Program applications, participating college bulletins and class schedules are available from the Coordinator, the Associate Registrar.

## Academic Requirements

Students participating in the program are expected to maintain the same degree of proficiency in their academic studies at the cooperative institution as at Towson State.

Courses taken at the cooperative institution are part of the student's academic record, and the grades will be computed into the student's grade point average at Towson.

Only full-time day students who are in good standing academically in an undergraduate or graduate degree program are eligible to participate in the Cooperative Education Program.

## Programs With Coppin, Morgan, and UMBC

The public Colleges in the Baltimore metropolitan area are Coppin. Morgan and UMBC. Students are especially encouraged to select courses from the curriculum of these three schools, since they are within easy commuting distance of Towson State.

Only undergraduate students are eligible to participate in the Cooperative Program. Undergraduate students may pursue courses of instruction equivalent to three semesters of fulltime work (54 credit hours). Students can take an entire semester's academic load or any part of it at either Coppin, Morgan or both while in attendance at Towson.

Specially arranged courses are also offered to permit greater freedom of choice, especially those courses either taught by eminent professors or not ordinarily available at Towson.

Students may elect courses offered only in the day program.

## Programs With The State Colleges — Bowie, Frostburg, and Salisbury

Students are encouraged to make use of the academic curriculum available at Bowie, Frostburg, and Salisbury. Distance precludes simultaneous part-time attendance at Towson and one of the other colleges. However, students can spend three full semesters at any one of the three colleges. Undergraduate students can elect up to 54 credit hours, and graduate students can elect up to 12 credit hours.

## Programs With The Private Colleges — Loyola, Goucher, and Johns Hopkins

Towson has a Cooperative Education Program with both Loyola, Johns Hopkins and Goucher. Undergraduate students (except freshmen) are eligible to participate in this program. Students are permitted to take only those courses which are not offered at Towson. Students interested in either Loyola, Goucher, or Hopkins should consult with the Coordinator of the Cooperative Education Program.

## National Student Exchange

This program allows students an opportunity to become acquainted with social and educational patterns in other areas of the United States. Through Towson's membership in the NSE, students may attend one of the 16 participating schools for a semester or a full year. For further information, contact the Associate Registrar.

## **VETERANS**' **AFFAIRS**

Towson State College's Office of Veterans' Affairs is concerned with all veterans and their dependents in attendance. Its major aim is to assist all veterans in making a smooth readjustment to civilian life, especially in the area of education.

The office provides professional assistance and counseling to veterans concerning personal, family, educational, military discharges and career problems. In addition, the office certifies veterans' and dependents' attendance so that they may receive educational benefits from the Veterans Administration.

## **JANUARY** SESSION

Beginning in January, 1972, Towson offered its first Minimester or January Session.

Courses may be of the traditional lecture or discussion type, or they may be entirely new and experimental. They may be a combination of old and new, Courses hopefully will cover a narrower, more topical range of subject matter than most courses offered during the regular semester. Independent study, directed readings, travel study, practicums, and other courses that could lend themselves to a concentrated, full-time effort by a student would be appropriate for a Mini-Term.

Credits for the Minimester will be equivalent to credits earned during the regular semester. Each student is limited to one course during the Mini-Term, carrying a load of from one to three credits. This restriction is intended to preserve the Mini's main feature: The opportunity to concentrate on one educational theme without the competition of other courses or other teaching responsibilities.

Special students and part-time degree candidates may be admitted to the January session, however, the College Center fee will be assessed for these students.

Fees will be assessed on a per-credit basis plus a registration fee payable at the time the student registers for a course.

Faculty and students who choose not to participate in the January session would have the period covered by the Minimester free—for research, study, travel or work.



## Graduate Studies

Wilfred B. Hathaway, Dean and Director of Graduate Studies
Frederick C. Arnold, Associate Director of Graduate Studies
Golden E. Arrington, Coordinator, Music Education Program
Grayson S. Burrier, Coordinator, Secondary Education Program
Norman R. Diffenderfer, Coordinator, Geography Program
Regina I. Fitzgerald, Coordinator, Elementary Education Program
Joseph P. Gutkoska, Coordinator, Reading Program
Dell C. Kjer, Coordinator, Early Childhood Education Program
Fredericka Kundig, Coordinator, Biology Program
Charles Lonegan, Jr., Coordinator, Speech Pathology and Audiology Program
Stuart Miller, Coordinator, General Psychology
John B. Mitchell, Coordinator, Art Education Program
Edward Neulander, Coordinator, Counseling
Barbara Slater, Coordinator, Clinical Psychology, School Psychology
Robert Z. West, Coordinator, Audiovisual Communications Program

PROGRAMS AND PURPOSES The Master of Arts degree programs in Geography and Psychology, and the Master of Science degree programs in Audiovisual Communications, Biology, and Speech Pathology and Audiology are intended to develop further specific knowledge in the respective fields. It is the intent of these programs to enable students to meet their needs through the flexibility within each program.

The programs leading to the Master of Education degree have been developed primarily to help school teachers and guidance counselors increase their competency in the following general areas:

Art Education
Early Childhood Education
Elementary Education

Music Education
Reading
Secondary Education

GENERAL ADMISSIONS POLICY Admission to the Graduate Division at Towson State College is granted to all applicants whose academic and personal qualifications give promise of success in graduate study. The Board of Trustees of the State Colleges has established the requirement that admission to the State Colleges shall be determined without regard to race, color, religion, or sex.

All students seeking admission to a graduate degree program must file an "Application for Admission to Graduate Studies" prior to first enrollment and have official transcripts of all college work sent to the Graduate Division. Transcripts must be sent directly from the institutions attended to the Graduate Office at Towson State College. Programs have the option of requiring additional admissions devices (including letters of recommendation, the Graduate Record Examination Aptitude and/or Advanced Tests and the Miller Analogies). Students should consult the Graduate Division for information concerning specific programs.

ADMISSION TO COURSES FOR GRADUATE CREDIT

An applicant for admission to courses for graduate credit (classification: Graduate Student) must meet admission requirements in one of two ways: 1) By holding a Master's or Doctor's degree from a regionally accredied college or university, 2) By holding a Bachelor's degree from a regionally accredited college or university, with a grade average of 3.00 ("B") and satisfactory attainment on all admissions devices required by the program. At the option of the coordinator and the Department Graduate Committee, the grade average requirement may be satisfied by a 3.00 cumulative average, by a 3.00 average in the most recent 60 credits on the undergraduate academic record, or by a 3.00 average in the courses making up the undergraduate major and minor if the student plans to continue

his studies in these same fields. The quality of graduate work taken beyond the Bachelor's degree, either as post-baccalaureate (nongraduate credit) courses or graduate credit courses, will be evaluated as part of the undergraduate record.

All required application credentials (see General Admissions Policy) must be filed with the Dean of Graduate Studies no later than July 15 for the Fall Semester, November 15 for the Spring Semester, or March 15 for the Summer Session to be considered for admission. Those who are admitted as Graduate Students may register for courses numbered 100-699, but will receive graduate credit only in graduate level courses numbered 300-699 completed with grades of "C" or better. Some 300-level and 400-level courses do not carry graduate credit and are not listed in the Graduate Bulletin. In order to maintain the classification of Graduate Student, a good academic record must be achieved even if the student is not in a degree program.

#### CONDITIONAL ADMISSION

Conditional Admission may be granted to those students whose academic achievement falls short of the standards required for Graduate Student standing if one of the following requirements is met:

- 1. Academic average in collegiate work—at least 2.30 is one or more of the areas of the student's record listed above in "Admission to Courses for Graduate Credit."
- 2. Academic average in collegiate work—at least 2.00 in one or more of the areas of the student's record listed above in "Admission to Courses for Graduate Credit"—and a score of 1000 or higher on the Aptitude portion of the Graduate Record Examination.

The student granted conditional admission must complete two specified courses with the grade of "B" or better in each course. The courses must be completed within one year of admission and may be used towards the degree when applicable.

Students admitted conditionally are enrolled as Non-Graduate Students.

GRADUATE WORK BY SENIORS AT TOWSON STATE COLLEGE Students in their last semester of work at Towson State College may register for a maximum of six credit hours in the Graduate School if they meet the following requirements: 1) The graduate courses must be in excess of the credits required for the Bachelor's degree, 2) A letter sent from the student to the Dean of Graduate Studies requesting Graduate Student classification (which requires a 3.00 average), submitted in advance for specific graduate courses (by July 15 for the Fall Semester, November 15 for the Spring Semester, and March 15 for the Summer Session) must be approved. 3) All required application credentials must be submitted (see General Admissions Policy) and the student must be granted Graduate Student Standing prior to receipt of graduate credit for satisfactory completion of the courses, and prior to initiation of further course work.

COURSES FOR POST-BACCALAUREATE WORK (NON-DEGREE PROGRAMS)

Students who do not meet the standards required for classification as Graduate Student are permitted to register with the classification of Non-Graduate Student and pursue non-degree programs. Those students receiving Non-Graduate standing are eligible to take courses at the 100-level through the 400-level, but receive graduate credit only in courses numbered 300-499 and listed in the current bulletin as "Undergraduate and Graduate."

Non-Graduate Students pursuing non-degree programs at the post-baccalaureate level, however, must file the appropriate applica-

Students who believe they can meet the admission requirements for Graduate Student standing but who fail to file the required application credentials in advance must register as Non-Graduate for the semester. However, they will be considered for admission to Graduate Student standing if their application credentials are received by the college before the end of the first quarter of the semester. If they are admitted to Graduate Student standing they will then be permitted to receive degree credit for satisfactory completion of any 300-level and 400-level graduate courses provided the courses are applicable to the degree program.

## CANDIDATES FOR DEGREES AT OTHER INSTITUTIONS

A student who is a candidate for an advanced degree at another college or university may enroll as a Graduate Student at this college for occasional work. He must present, at least two weeks before registration, a letter from the Graduate Dean of his parent institution indicating that he is in good standing and that credit earned at Towson State College is acceptable towards his degree.

## ADMISSION PRIOR TO RECEIVING BACCALAUREATE DEGREE

Admission of applicants whose required application credentials are incomplete because the baccalaureate degree has not yet been conferred may be granted to seniors in their last semester of work. Evaluation will be made on the basis of their undergraduate work through the first semester of the senior year. Standing granted in the pre-degree category is made at the option of the Graduate Program Coordinator to enable the student to begin work in courses carrying graduate credit immediately upon completion of the senior year. The applicant must have all application credentials completed during the first month after classes begin in the semester he initiates his course work. Admission standing is subject to cancellation or change if the admission credentials remain incomplete or do not meet the requirements for admission. If admission as a Graduate Student is denied, the student will be required to withdraw from any 500-level or 600-level courses for which he has registered. Continuation of students in courses below the 500-level will be permitted.

## FOREIGN APPLICANTS

Admission should be sought at least six months prior to the date of anticipated enrollment. All required admission credentials must be received in the Graduate Office prior to evaluation for admission.

Credentials required are:

- 1. An Application for Admission to Graduate Studies
- 2. Official or certified true copies of all grade reports, diplomas, and academic records attesting to the completion of undergraduate work
- 3. A letter from the student stating plans for attending, and reasons for selecting, Towson State College
- 4. A financial summary stating amount and sources of support for the proposed duration of study
- 5. Acceptable scores on the Test of English as a Foreign Language (TOEFL). Information about the TOEFL may be obtained from TOEFL, Educational Testing Service, Princeton, New Jersey 08540

#### GRADING SYSTEM

A four-point system is used to identify quality of academic work. The letter "A" designates work of superior quality; "B," work of good quality; "C," work of satisfactory quality; "D," work of less than satisfactory quality and not allowable for degree credit; "NC," work of such unsatisfactory quality that no credit is given. Postbaccalaureate students may not elect to take any course offered as available for "graduate" credit under the Pass Option policy.

A mark of "I," (incomplete because of illness or other reason beyond control of student) at the end of a semester, carries no credit. Unless such a course is satisfactorily completed within six months of the last day of class for the course, the grade for the course becomes "NC." It is the responsibility of the student to make arrangements to complete course requirements for removal of the "I."

In computation of grade point averages, the following quality point values are used:

A—4 quality points C—2 quality points B-3 quality points D-1 quality point

Students may repeat any course only once where credit has been earned or a mark of "NC" has been awarded. When the course is repeated, the student will receive the credits for the course counted once and the higher of the two grades. Upon completion of the repeated course, a Change of Grade form must be submitted to the Registrar by the student. The lower of the marks earned is not retained on the student's permanent record.

## REQUIREMENTS FOR THE MASTER'S DEGREE

- 1. Satisfactory completion of all undergraduate requirements listed as prerequisites for the degree.
- 2. The filing of a Program of Study with the Dean of Graduate Studies.
- 3. Advancement to Degree Candidacy.
- 4. A 3.00 average in all graduate work at this college.
- 5. Satisfactory completion of the Comprehensive Examination if required by the program in which the degree is earned
- 6. Satisfactory completion of the Thesis and oral examination if the Thesis Option is selected.
- 7. The filing of the Diploma Card in the Graduate Division.

#### TIME LIMITATION

All requirements for the Master's degree are to be completed within a seven-year period. The scheduled time is determined from the date of the first course in the degree program at this college, or the date of any course allowed as transfer credits, whichever is earlier.

### CONTINUOUS **ENROLLMENT**

Each student is expected to register for courses on a regular basis. Should there be a lapse of two academic years without courses being taken, the student's records will be inactivated. Once a student has become "Inactive," it is necessary to be reactivated under current policies.

#### PROGRAM OF STUDY

A Program of Study should be planned within the semester that the student is granted Graduate Student standing. The Program is to be completed in consultation with an adviser and must be drawn up on forms provided by the appropriate graduate coordinator. Revision of the Program of Study may be accomplished only with the adviser's approval. The Program must be planned prior to Advancement to Degree Candidacy. Any courses taken prior to the planning of the Program of Study are subject to the approval of the appropriate graduate coordinator.

## ADVANCEMENT TO DEGREE CANDIDACY

All students in programs leading to the Master's degree must attain Advancement to Degree Candidacy. An application for Advancement to Degree Candidacy may be made by Graduate Students after nine hours of graduate courses have been completed. The following requirements govern eligibility for Advancement to Degree Candidacy:

- 1. Six credits in 500-level and 600-level courses.
- 2. A 3.00 average in all graduate work at this college.
- 3. Successful completion of the Advancement to Degree Candidacy Examination.
- 4. The filing of a Program of Study with the Dean of Graduate Studies.
- 5. Completion of all undergraduate requirements.

All students are urged to meet the requirements of and to make application for Advancement to Degree Candidacy within the nine to fifteen hour framework. Advancement to Degree Candidacy must be attained at least one semester prior to the semester in which the student desires graduation.

#### ADVANCEMENT TO DEGREE CANDIDACY **EXAMINATION**

Each student must successfully pass a written examination prior to Advancement to Degree Candidacy. Application for the examination must be made prior to the date established as the deadline for applying as stated in the Graduate Studies Bulletin. Should the student not take the examination or have to repeat it, the application must again be submitted during the semester in which the examination is desired.

In the program leading to the Master's degree in Biology, the examination requirement may be satisfied by completing 14.581, "Recent Advances in Biology," with the grade of "B" or higher. The programs in Early Childhood Education, Elementary Education, and Secondary Education allow satisfaction of the examination requirement by completing 29.501, "Educational Ideas in Historical Perspective" with the grade of "B" or higher. The written Advancement to Degree Candidacy Examination is required in all cases where the grade of "A" or "B" is not attained when the course is first taken.

#### COMPREHENSIVE EXAMINATION

It is the option of each program to administer a final comprehensive examination. The final comprehensive examination may not be taken earlier than the term during which he will complete his course work. The examination may be repeated only once. Application for the examination must be made prior to the date established as the deadline for applying as stated in the Graduate Studies Bulletin. Should the student not take the examination or have to repeat it, it is necessary that an application again be submitted during the semester in which the examination is desired.

## **ACADEMIC** PROBATION

In order to remain in good standing, candidates for the Master's degree must maintain a 3.00 average. If the cumulative average falls below 3.00, the student will be placed on probation. If after completing nine more hours of work, his cumulative average remains below 3.00, he will be dropped from candidacy; otherwise, he will be restored to good standing.

A student on probation will not be permitted to take the comprehensive examination leading to any degree. Required courses in which the candidate earns a grade of "D" must be repeated since the grade does not confer graduate credit.

# WORKSHOP AND NDEPENDENT STUDY LIMITATIONS

In all degree programs, a limit of twelve semester hours total is placed on workshops, independent study, travel and study, and directed reading. No more than six semester hours may be taken in any single area.

#### COURSE LOAD

A student who registers for nine graduate credit hours is considered full time. One who takes fewer hours is designated a part-time student. The maximum load for full-time students is twelve credit hours.

# THESIS PROCEDURE

Students intending to write a thesis in partial fulfillment of the requirements for the degree should obtain the brochure "Thesis Procedure" from the Graduate Office. The following steps must be completed prior to approval of registration for the appropriate Thesis course:

- 1. The student declares in writing to the Dean of Graduate Studies his intent to complete the Thesis requirement.
- 2. The student meets with the Graduate Coordinator to select a Research Adviser.
- 3. A Thesis topic is agreed upon.
- 4. Suggested members of the Thesis Committee are submitted by the department to the Dean of Graduate Studies.
- 5. The Thesis Committee is appointed by the Dean of Graduate Studies.
- 6. The student prepares a Thesis Outline and submits copies to all members of the Thesis Committee.
- 7. The student and his advisor schedule a meeting of the full Committee and the student orally presents and defends his Outline.
- 8. The accepted Outline is filed with the office of the Dean of Graduate Studies.
- 9. The student begins his research.
- 10. At the next registration for courses, the student must register for the appropriate Thesis course.

## TRANSFER CREDIT

The following regulations govern the transfer of credits from other regionally accredited colleges:

- 1. A maximum of six transfer credits for graduate courses taken prior to enrollment at Towson State College is allowed if the student is initially admitted to Graduate Student Standing at this college and if the courses are relevant to the student's major.
- 2. Transfer credit after a student has attained Graduate Student Standing may be permitted if the student applies in writing to the Dean of Graduate Studies for permission prior to taking the course.

Normally, approval will be given only for courses which are not offered by Towson State College during the period of the student's attendance.

- a. A maximum of twelve transfer credits may be allowed for graduate work satisfactorily completed at the State Colleges: Bowie, Coppin, Frostburg, Morgan, and Salisbury.
- b. A maximum of six transfer credits may be allowed for graduate courses completed at accredited colleges or universities not listed above. Permission for these credits can be granted only if the student has not transferred courses taken prior to entrance at Towson State College.
- 3. The total accumulation of transfer credits from all courses listed in 1 and 2a above may not exceed twelve.
- 4. All transfer credits must be completed with a grade of "B" or higher and must remain within the total span of seven years allowed for completion of degree requirements.



# Course Descriptions

## The Meaning of Course Numbers

Each department of the College has one or more code numbers and abbreviations for each general subject area (e.g., French in the Modern Language Department). The code abbreviations are shown in parentheses at the head of the course listings. The code numbers form a two digit Subject Classification Number, which precedes a three digit Course Classification Number, forming a five digit Course Number. Each course has a distinctive number, with the following significance:

Course Classification Numbers	Significance of Numbers
.001009*	Two Year Experimental Courses.
.010099	Service Division Special Courses with credit and Service Courses with no credit.
.101299	Lower Division Undergraduate Courses.
.301499	Upper Division Undergraduate and Graduate Courses, as noted.
.501699	Graduate Division Courses.

<sup>\*</sup> After June, 1974, this numerical sequence will apply only to non-credit courses and courses offered in the January session.

## Sequential Courses

Semesters of a year course whose numbers are separated by a hyphen are to be taken in sequence. When course numbers are separated by a comma, either semester may be taken independently of the other. (See Prerequisites.)

#### Elective Courses

Students majoring in the various areas will need to choose their electives with extreme care. Before registering for courses which are not required students should consult their advisers. The advice of the instructor of the course or the chairperson of the department in which the elective course is listed may be needed before a wise decision is made concerning the choice of an elective.

#### Credit Value of Courses

The semester credit value of the course is indicated in the parentheses following the title.

## Time of Offering

All required courses are usually offered each semester. Elective courses in each department are usually offered at least one semester each year. All non-required courses are offered subject to sufficient enrollment.

## Prerequisites

The order in which courses should be taken is determined by the prerequisites for all courses to be taken. (See Sequential Courses).

# Art

Professors: MILLER, MITCHELL, POLLACK (Coordinator of Graduate Studies), ZINDLER

Associate Professors: CUBBISON, FLOOD, GUILLAUME, MONTENEGRO, NASS

Assistant Professors: COHEN, DAVIS, FIX, GILCHRIEST, JACOBSON, LADD, OUNDJIAN,

PAULSEN, ROBB, SUPENSKY (Chairman)
Instructors: BARTLETT, DENNER, PITMAN, PULLEN

Assistant Instructor: LEE

Education in the visual and plastic arts provides insight into the physical and subjective environment of individuals and cultures. Personal participation in the arts develops perceptual and expressive abilities. An undergraduate major in Studio Arts and both undergraduate and graduate majors in Art Education are offered.

## Art Major

All prospective art majors and minors must register with the Art Department as early as possible during the first year on campus. The purposes of a major in art are to provide a background for personal creativity, to prepare for graduate work, and to provide a foundation for a career in art. Required courses are: 12.103, 12.104, 12.111, 12.121, 12.122, 12.201, 12.229, 12.230, 12.231, 12.240 or 12.241 and a course in Graphic Processes.

In addition, art courses are required to reach the minimum total of 45 credits. The minimum total art credits required may be increased in the future. Transfer students must take half the total required art credits with this department. The department reserves the privilege of retaining student work, including rights of reproduction and publication.

## Art Education Major

The department offers dual teaching certification only (Elementary and Secondary Level). All courses and statements for the art major apply also to the art education major. These plus 12.225, 12.224, 12.375, 12.475, 12.479, Educ. 27.319, Psychology 70.201 (203) must precede student teaching. Proseminar 12.455 is taken concurrently with student teaching (26.497-27.398). Students may register for "Methods" (12.475-12.479) and student teaching only if at least half the studio-art history requirements were taken in this department. Education 29.401 is also required for certification.

#### Art Minor

Students who wish a minor in art should select the following courses: 12.103, 12.111, 12.121 or 12.122, 12.229, 12.240, plus additional art electives to total at least 21 credits.

## The Arts and Sciences Program

For general information please refer to the Arts and Sciences program in this bulletin. Students who wish to select art as their "core" of concentration must take the following courses: 12.103, 12.104, 12.105, 12.111, 12.121 or 12.122. Students in this program must register with the Art Department.

# Art Honors Programs

The art department grants honors in Art Education, Art History, and Studio Arts. Admission is granted at the end of the sophomore or beginning of the junior year to students who have the following qualifications: overall cumulative

average of 3.25, major average of 3.25, recommendation of advisor to Departmental Honors Coordinator. The minimum requirements for graduation with honors in art are overall cumulative average of 3.25 and 3.50 in major field and completion of the honors program of study.

#### ART COURSES

COMMENCING WITH THE 1976-77 ACADEMIC YEAR, THE CURRENT ALPHABETICAL DESIGNATION "ART" WILL BE REPLACED BY THE NUMERIC CODES OF 1001 (ART) AND 0831 (ART EDUCATION).

#### Lower Division — Undergraduate

- 12.102 (1001.102) FUNDAMENTALS OF DESIGN FOR NON-ART MAJORS (3) Elements and principles of design and aspects of their application. (Not for major credit)
- 12.103 (1001.103) TWO DIMENSIONAL DESIGN (3) Elements and principles of two dimensional design and aspects of their application. Studio & discussion.
- 12.104 (1001.104) THREE DIMENSIONAL DESIGN (3) An introduction to three dimensional concepts as they relate to the elements and principles of design. Form and space problems involving various materials, tools and techniques.
- 12.105 (1001.105) ART IN THE CULTURE (3) A study of art and its relation to man's culture, historically as well as a strong emphasis on contemporary western culture. Slide lectures to include a broad media of art forms, readings and museum visits. (Does not count for major credit)
- 12.106 (1001.106) DRAWING AND PAINTING FOR NON-ART MAJORS (3) An introductory course for non-art majors. Studio experience in drawing and painting. Critiques and museum visits.
- 12.107 (1001.107) CERAMICS FOR NON-ART MAJORS (3) An introduction to the creative possibilities inherent in clay. Studio work in handbuilding and the potter's wheel.
- 12.108 (1001.108) STREET ART (3) Investigation of public (vs. museum or elitist) art from mid-eighteenth century to current times. Philosophy behind propaganda and aesthetics of various political systems will be included. Meets general education requirements.
- 12.111 (1001.11) DRAWING AND THE APPRECIA-TION OF DRAWING I (3) Problems of expressive draftsmanship in a variety of media. Drawing from the costumed and nude figures, still life and landscape.
- 12.121 (1001.121) PREHISTORIC TO MEDIEVAL ART (3) An historical survey of art. Slide lectures, directed readings and museum trips.
- 12.122 (1001.122) RENAISSANCE TO CONTEM-PORARY ART (3) An historical survey of art. Slide lectures, directed readings and museum trips.
- 12.131 (1001.131) THE ART OF CHINA (3) The art of China and peripheral regions as expressed in painting, sculpture, architecture,

- porcelain, and the ritual bronzes. The influence of India is studied in connection with the spread of Buddhism along the trade routes of Central Asia. Slide lectures, directed readings, museum trips and demonstration of ink painting.
- 12.132 (1001.132) THE ART OF JAPAN (3) A survey of the development of Buddhist art and architecture in Japan as they were introduced from China, including the arts of later periods, with special emphasis on the formation of indigenous art forms such as narrative scroll-painting, decorative screens and woodblock prints.
- 12.201 (1001.201) COLOR (3) Fundamentals of color including work in the basic areas of hue, value, intensity and color mixing, as well as projects in color interaction, illusion, complements, after image, additive and subtractive color and types of color contrast. The student should gain some knowledge of color systems, experience in subjective color use, and discover the specific structural and emotional qualities that color can create. Prerequisite: 12.102 or 12.103 or consent of instructor.
- 12.202 (1001.202) ADVANCED DESIGN (3) The application of aesthetic principles to graphic and plastic problems. Emphasis on independent investigation. Prerequisites: 12.103, 12.104.
- 12.205 (1001.205) THE ART OF PUPPETRY AND MARIONETTE PRODUCTION (3) Design and construction of puppets and marionettes; adapting plays, stories, and events; designing and constructing scenery; lighting; production.
- 12.206 (1001.206) ARCHITECTURAL CONCEPTS
  (2) The organization of space and materials for human needs. Contemporary and historical aspects of the design of private and public buildings and of communities. Lectures and Discussion.
- 12.211 (1001.211) DRAWING II (3) Continued studio work in drawing; landscape, still life and figure. Prerequisite: 12.111.
- 12.213 (1001.213) LIFE DRAWING AND ANAT-OMY (3) The study of anatomical structure of the human figure for art students. Drawing from the nude and draped model. Prerequisite: 12.111.
- 12.215 (1001.215) PROJECTIVE DRAWING (2) Methods of perspective, orthographic and

- isometric projections. The use of various media in the rendering of three dimensional form
- 12.216 (1001.216) THE IMAGE OF WOMEN IN ART (3) Women in the history of art from prehistoric to the present with special emphasis in relation to the cultures studied.
- 12.220 (1001.220) EXHIBITION TECHNIQUES (2-3)
  The practical and theoretical problems involved in museum and gallery installation of art works. Includes study of past exhibition techniques and observation of contemporary methods. Directed museum trips. Prerequisite: 12.103, 12.104 or consent of instructor.
- 12.225 (1001.225) DESIGN FOR COMMERCIAL ART (3) Drawing, painting, lettering and typography as visual communication. Prerequisite: 12.103.
- 12.227 (1001.227) WOOD (3) Lecture and directed studio exploration in designing, cutting, shaping, turning, joining, laminating, and finishing hard and soft woods. Both hand and machine tools will be used. Prerequisite: 12.103, 12.104.
- 12.229 (1001.229) OIL PAINTING AND RELATED MEDIA I (3) Varied approaches to painting and a variety of media (e.g. acrylic, encaustic, oil painting) are explored through demonstration and experimentation. Prerequisites: 12.103 and 12.111.

# 12.230 (1001.230) WATERCOLOR AND RELATED MEDIA I (3) Varied approaches to water-color and a variety of media (e.g. gouache, casein, watercolor) are explored through demonstration and experimentation. Prerequisite: 12.103 and 12.111.

- 12.231 (1001.231) CERAMICS I (3) Creative investigation of ceramic materials with an emphasis on the potter's wheel. Studio work, lectures and discussion on ceramic design, techniques and materials. Prerequisite: 12.103, 12.104 or consent of instructor.
- 12.234 (1001.234) DESIGN: THE PHOTOGRAPHIC IMAGE (3) A comprehensive investigation into the technique and aesthetic of still photography. Students must have a camera with adjustable diaphragm and shutter. Prerequisite: 12.103, 12.104 or written consent of instructor.
- 12.240 (1001.240) SCULPTURE: THE HUMAN FIGURE (3) An introduction to the use of human figure in sculpture. Clay modeling from the nude, with experience in direct plaster modeling and plaster casting. Prerequisites: 12.103, 12.104.
- 12:241 (1001.241) SCULPTURE: CONTEMPO-RARY MEDIA AND CONCEPTS (3) Technical and aesthetic considerations in the use of current sculptural concepts and media, including lights, kinetics, sound, plastics, etc. Prerequisites: 12.103, 12.104.

## Upper Division — Undergraduate and Graduate

- 12.314 (1001.314) THE ART OF ENAMELING ON METAL (3) Design as applied to the art of enameling on copper and silver. The appreciation of master works of enameling from medieval to contemporary times. Studio work and lectures. Prerequisites: 12.103, 12.104.
- 12.318 (1001.318) JEWELRY (3) Investigation into aesthetics, history, function and design of jewelry. Lecture and directed studio problems in forming, joining and finishing of metallic and non-metallic materials. Prerequisite: 12.103 and 12.104 or consent of instructor.
- 12.319 (1001.319) METALSMITHING (3) Lecture, demonstrations, and directed studio problems in raising, forging, joining, and finishing various metals with emphasis on design and creation of hollow-ware and flatware. The historic and aesthetic aspects of the media are considered. Prerequisite: 12.318.
- 12.323 (1001.323) PICASSO TO THE PRESENT (3) Art History with emphasis on painting from 1900 to the present. Slide lectures, directed readings and museum trips. Prerequisites: 12.121 and 12.122.
- 12.324 1001.324) HENRY MOORE TO THE PRESENT (3) Art History with emphasis on sculpture from 1900 to the present including new media and happenings. Directed readings and museum trips. Prerequisites: 12.121 and 12.122.

- 12.325 (1001.325) FRANK LLOYD WRIGHT TO THE PRESENT (3) Art History with emphasis on architecture from 1900 to the present including time-space concepts. Prerequisites: 12.121 and 12.122.
- 12.326 (1001.326) FABRIC DESIGN (3) Design problems executed with fabric. Instruction in tie dying, batik, block printing, silk screen on fabric. Prerequisites: 12.103, 12.104 or consent of instructor.
- 12.328 (1001.328) WEAVING AND FIBER CON-STRUCTION (3) Design problems executed in fibers and fabrics. Instruction in loom and hand weaving, macramé, stitchery, rug hooking, etc. Aesthetic and historical considerations. Prerequisites: 12.103, 12.104 or consent of instructor.
- 12.329 (1001.329) OIL PAINTING AND RELATED MEDIA II (3) Continued studio experiences in painting. Prerequisite: 12.229 or consent of instructor. (Not for Graduate Credit)
- 12.330 (1001.330) WATERCOLOR AND RELATED MEDIA II (3) Continued studio experiences in painting. Prerequisite: 12.230 or consent of instructor. (Not for Graduate Credit)
- 12.331 (1001.331) CERAMICS II (3) Continued studio experience in ceramics. Assigned problems utilizing a variety of clay construction methods plus independent work. Lectures and discussion including clay mixing,

- glaze application and kiln operation. Prerequisite: 12.231. (Not for Graduate Credit)
- 12.334 (1001.334) ADVANCED PHOTOGRAPHY (3) Continued research with the photographic aesthetic. Emphasis on independent investigation. Student must have camera with adjustable diaphragm and shutter. Prerequisite: 12.234 or written consent of the instructor based on demonstration of technical competence.
- 12.335 (1001.335) COLOR PHOTOGRAPHY I (3)
  An investigation into the use of color and form in still photography through the use of positive and negative transparencies. Prerequisite: 12.234 and 12.334 or equivalent.
- 12.339 (1001.339) METAL SCULPTURE (3) Conceptual and technical problems involved in forging, forming, welding, soldering and finishing both ferrous and non-ferrous metals. Prerequisite: 12.240 or 12.241.
- 12.340 (1001.340) SCULPTURE STUDIO: MODEL-ING (3) Continued studio experience in modeling with emphasis on the use of a variety of techniques and materials: wax, plasters, cements, clay, resins, epoxy metals. Prerequisite: 12.240.
- 12.342 (1001.342) SCULPTURE STUDIO: CARV-ING (3) Technical and aesthetic problems involved in carving stone, wood and other carvable media; studio problems; museum visits. Prerequisite: 12.240 or 12.241.
- 12.343 (1001.343) GREEK AND ROMAN ART (3) Studies in architecture, the decorative arts and sculpture, slide lectures, readings and museum visits. Prerequisites: 12.121.
- 12.344 (1001.344) BYZANTINE TO GOTHIC ART (3) Studies in architecture, the decorative arts and sculpture, slide lectures, readings and museum visits. Prerequisites: 12.121.
- 12.345 (1001.345) ITALIAN RENAISSANCE ART: 15th-16th CENTURIES (3) Studies in architecture, painting and sculpture, slide lectures, readings and museum visits. Prerequisites: 12.122.
  - 12.346 (1001.346) THE BAROQUE AND 18th CENTURY (3) Studies in European architecture, painting and sculpture of the period. Slide lectures, readings and museum visits. Prerequisites: 12.122.
- 12.347 (1001.347) SCREEN PROCESS (3) Personal expression in traditional and experimental techniques of screen printing: Serigraphy in color, tusche, stencil, glue. Prerequisites: 12.103, 12.111 or consent of instructor. (Not for Graduate Credit)
- 12.349 (1001.349) RELIEF PROCESS (3) Personal expression in printmaking: Woodcut, wood engraving, linocut, subtractive color printing and other relief processes. Prerequisite: 12.103, 12.111 or consent of instructor. (Not for graduate credit)
- 12.371 (0831.371) ART AND THE CHILD (2-3) Major considerations of art education appro-

- priate to the work of the elementary teacher; experiences with art materials. (Not for Graduate Credit)
- 12.375 (0831.375) MATERIALS AND TECH-NIQUES FOR TEACHERS OF ART (3) Art media and the materials and processes of the crafts are structured for varied learning levels. Visits to schools and other art teaching situations as observers and aides are an integral part of the course. Prerequisite: A major in Art Education or consent of the instructor. Must precede student teaching. (Not for Graduate Credit)
- 12.391 (1001.391) RESEARCH IN ART HISTORY (3) Bibliographic research procedures in Art History. The preparation of publications, including termpapers, theses, reviews and criticism. Study of the provenance and condition of works of Art. History of scholars and writing in the field. Prerequisite: 12.121 and 12.122. (Not for Graduate Credit)
- 12.405 (1001.405) ART PRINCIPLES AND CRITICISM (3) Principal concepts of art; theories of perception and aesthetics; application of theories to the interpretation of specific works of art. Prerequisite: 12.105 or 12.121 or 12.122.
- 12.414 (1001.414) ADVANCED STUDIO (2-3) Independent work for advanced students in field of special interest. Prerequisites: Must have exhausted other courses in particular field or written consent of instructor. Student must make arrangements in advance of registration with instructor of his choice.
- 12.415 (1001.415) ADVANCED STUDIO (2-3) Independent work for advanced students in field of special interest. Prerequisites: Must have exhausted other courses in particular field or written consent of instructor. Student must make arrangements in advance of registration with instructor of his choice.
- 12.416 (1001.416) ADVANCED STUDIO (2-3) Independent work for advanced students in field of special interest. Prerequisites: Must have exhausted other courses in particular field or written consent of instructor. Student must make arrangements in advance of registration with instructor of his choice.
- 12.418 (1001.418) JEWELRY II (3) Continued studio experiences in jewelry. Directed studio problems in the techniques of casting, fabrication, raising, forging, stone setting. With an emphasis on independent work and personal expression. Prerequisites: 12.318.
- 12.431 (1001.431) ADVANCED CERAMICS (3) Individually designed studio problems for advanced students in ceramics. Prerequisite: 12.331.
- 12.433 (1001.433) ADVANCED PAINTING (3) Individually selected studio problems for advanced students in area of special interest. Prerequisite: 12.329 or 12.330.
- 12.440 (1001.440) ADVANCED SCULPTURE (3) Individually selected studio problems

- for advanced students in their area of special interest. Prerequisite: 12.340 or 12.342.
- 12.449 (1001.449) INTAGLIO PROCESS (3) Personal expression in printmaking: Etching, drypoint, acquatint, engraving, and other intaglio processes. Prerequisite: 12.103, 12.111 or consent of instructor.
- 12.451 (1001.451) LITHOGRAPHIC PROCESS (3)
  Personal expression through printing from
  Litho stones and plates. Prerequisite: 12.103,
  12.111 or consent of instructor.
- 12.455 (0831.455) PRO-SEMINAR IN THE TEACH-ING OF ART (3) A professional seminar for Art Education majors. Discussion of problems in the current teaching experience. Prerequisite: Permission of Department. Concurrent with student teaching. (Not for graduate credit)
- 12.461 (1001.461) INTRODUCTION TO ART THERAPY I (3) A survey of the concepts and procedures of creative expression in the service of personal understanding and delopment. Consideration of educational, rehabilitory and psychiatric settings. Lectures, discussion, workshops, and readings. Prerequisite: At least junior standing as a major in Art, Psychology, Health, Mental Health or associated fields. Approved work experience in one of the above fields may be substituted.
- 12.462 (1001.462) INTRODUCTION TO ART

#### **Graduate Division**

- 12.511 (1001.511) DRAWING (3) Advanced problems in expressive draftsmanship. Prerequisites: 12.211 or consent of instructor.
- 12.514-515-516 (1001.514-515-516) GRADUATE STUDIO (2-3) Independent work for graduate students in field of special interest. Prerequisites: Must have exhausted other courses in particular field or written consent of instructor. Student must make arrangements in advance of registration with instructor of his choice.
- 12.529 (1001.529) OIL PAINTING (3) For students with previous experience in painting, consideration of current trends and styles; studio work, museum visits, lectures. Prerequisite: 12.329 or equivalent.
- 12.530 (1001.530) WATERCOLOR (3) Consideration of current trends and outstanding painters and styles. Studio work, museum visits, lectures. Prerequisites: 12.330 or consent of instructor.
- 12.531 (1001.531) CERAMICS (3) Advanced work in ceramic design and techniques of glazes, clay bodies, firing. Prerequisites: 12.331 or consent of instructor.
- 12.540 (1001.540) SCULPTURE (3) For students with previous experience in sculpture; con-

- THERAPY II (3) Continuation of Art Therapy I, the work of the therapist. Case studies, observations and participation in a variety of settings. Discussion, field work and readings. Prerequisite: 12.461 or consent of instructor.
- 12.471 (0831.471) ADVANCED ART EDUCATION
  (3) Art education problems at all levels;
  materials and skills in relation to classroom
  needs. Prerequisite: 12.371 or equivalent.
- 12.475 (0831.475) TEACHING ART IN THE ELE-MENTARY SCHOOL (2) Concurrent course with 479, Art in the Secondary School. For course description see 479. Open only to Art Education Majors. Prerequisite: All major art requirements plus 12.225, 70.201 and 27.319. (Not for graduate credit)
- 12.479 (0831.479) TEACHING ART IN THE SEC-ONDARY SCHOOL (2) Theoretic basis of art education, the function of the art specialist, and instructional materials and skills. Concurrent course with 475. Open only to art education majors. Prerequisite: All major art requirements plus 12.225, 70.201 and 27.319. (Not for graduate credit)
- 12.485 (1001.485) SEMINAR IN ART HISTORY (3) Intensive analysis of a defined historical period or stylistic development in art. Directed readings in both period and contemporary sources. Discussions and museum tours. Variety in content each year, may be re-elected. Prerequisite: 12.121 and 12.122 or consent of instructor.
  - sideration of current trends and styles; studio work, museum visits, lectures. Pre-requisites: 12.340 or 12.241 or 12.339 or 12.342 or consent of instructor.
- 12.551 (1001.551) GRAPHICS: INTAGLIO, RE-LIEF (3) Studio work for artists with basic knowledge of intaglio and/or relief processes. Aspects of mixed media explored. Prerequisites: 12.349 or 12.449 or equivalent.
- 12.553 (1001.553) GRAPHICS: LITHOGRAPHY, SERIGRAPHY (3) Studio work for artists with a basic knowledge of lithography and/or serigraphy. Prerequisites: 12.347 or 12.451 or equivalent.
- 12.595 (0831.595) RESEARCH IN ART AND ART EDUCATION (3) Methods of research applicable to art and art education. Examination of recent research in this field. Students will explore areas of their choice. Prerequisite: Consent of instructor. Offered Fall Semester evening only.
- 12.697 (0831.697) SEMINAR IN ART EDUCATION (3) Investigation of problems in art education and related fields. Examination of theories of art and art education. To be taken as final course in master's program. Prerequisite: 12.595 and consent of instructor. Offered 1st session of summer school.

12.699 (1001.699) ART THESIS: CREATIVE PROJECT (3) If approved, student will pursue his project resulting in an exhibition of

his work plus a paper defining the project's scope and philosophy. Prerequisites: 12.697 and consent of the department.

The Art Department offers a variety of highly specialized courses during the minimester session. Contact the Art Department for complete information on new courses which may not be included in this bulletin.

The following art education courses are supervised by members of the art faculty. Course descriptions will be found under the Education Department.

26.487 STUDENT TEACHING IN ELEMENTARY SCHOOL ART.

27.398 STUDENT TEACHING IN SECONDARY SCHOOL ART.



# Arts and Sciences

Coordinator: CHARLES C. ONION

COMMENCING WITH THE 1976-77 ACADEMIC YEAR, THE CURRENT ALPHABETICAL DESIGNATION "GEST" WILL BE REPLACED BY A NUMERIC CODE OF 4901.

The College offers a number of programs that afford students an opportunity to plan their own college programs, to follow individual interests, to experience a wide choice of courses from various departments and to prepare for certain specialized vocations. Interested students should consult one or more of the faculty advisors in the various programs as to requirements and procedures in declaring a major and pursuing a degree.

#### Program

Liberal Arts & Sciences — Core Program

Liberal Arts & Sciences — Thematic Option

General Arts & Sciences — Core Program

General Arts & Sciences — Thematic Option

General Arts & Sciences — Law Enforcement

American Studies

Black Studies

Women's Studies

MAJOR A — The Liberal Arts and Sciences Major constructed around a "core" discipline in the traditional Liberal Arts and Sciences fields.

MAJOR B — The General Arts & Sciences Major constructed around a "core" discipline in General Studies, which incorporates all of the Arts and Sciences.

THEMATIC OPTION — A student may fulfill the requirements for either Major A or Major B by substituting a thematic plan for the "core" discipline. We recognize that it is possible for Major A to be constructed out of Major B. We have made a formal distinction, however, because we wished both to create a major which preserves the concept of "liberal" arts and sciences in its traditional and widely understood meaning, and also to create a major (B) which offers maximum freedom of choice. In this way, a student who elects the former will carry a distinctive label.

## Major A — The Liberal Arts and Sciences Major

- ${\bf 1.}\ The\ student\ must\ satisfy\ General\ Education\ Requirements.$
- 2. To declare the major, the student must be a sophomore or junior with a 2.0 CPA.
- 3. From the Liberal Arts and Sciences Art, Biology, Chemistry, English, History, Modern Languages, Mathematics, Music, Philosophy, Physics and Theatre the student must take a minimum of 45 semester hours of uper division course work. These 45 hours must include work from a minimum of 4 different departments. Eighteen credits must be from the Arts and 18 credis from the Sciences (Mathematics being considered a Science).
- 4. At least 15, but no more than 21, of the 45 upper division hours must come from one discipline which shall serve as the "core" discipline in the student's program.

# Major B — The General Arts & Sciences Major

- 1. The student must satisfy General Education Requirements.
- 2. To declare the major, the student must be a sophomore or junior with a 2.0 CPA.

- 3. From the Arts and Sciences, which are construed to be the following Art, Biology, Chemistry, Economics, English, Geography, History, Modern Languages, Mathematics, Music, Philosophy, Physics, Political Science, Psychology, Sociology, Speech and Theatre — the student must take a minimum of 45 semester hours of upper division course work. With the approval of the student's advisor and the appropriate associate dean, courses in departments not listed above may be allowed if these courses are needed to complement the student's program.
- 4. At least 15, but no more than 21, of the 45 upper division hours must come from one discipline which shall serve as the "core" discipline in the student's program.

## Thematic Options to the Arts and Sciences Majors

With the approval of his advisor and the appropriate association dean, a student may elect to substitute a thematic plan for the "core" discipline in either Major A or B. By following this plan the student could develop an academic concentration in areas such as urban studies, American studies, environmental issues, etc.

Except for the following, the requirements will be the same as for Major A or B:

- 1. A minimum of 15, but not more than 36, of the 45 upper division hours must relate specifically to a chosen topic or theme.
- 2. All course work must be on an upper division level unless the faculty advisor approves the inclusion of some particularly significant course work at the lower division level. For example, a course important to the student's theme may exist only at the lower division level.

#### LAW ENFORCEMENT AND CORRECTION

A new thematic option entitled, Law Enforcement and Correction is now being offered. Among its objectives are the following:

- 1. To provide in-service law enforcement and correctional personnel the opportunity to further their education beyond the junior college with a minimum loss of credits from their junior college program.
- 2. To provide an interdisciplinary degree with a strong emphasis on sociology, psychology and political science.
- 3. To provide the community with law enforcement personnel who are able to make good value judgment, to maintain their perspectives, to understand underlying causes of human behavior, and to communicate clearly and precisely.

The specific requirements of this thematic option will consist of the following upper division courses to be taken at Towson State College or a cooperative school:

- Health: 6 credits beyond Current Health Problems. Sex Education and Family Living or Human Sexuality; and Drugs in the Culture.
- History: 6 credits beyond U.S. I and II, chosen from the following: Social History U.S. I; Social History U.S. II; Constitutional History U.S.; City in American History; Immigrant in American History; History of Black America.
- Political Science: 6 credits beyond American National Government. Urban Government & Politics; and Public Administration.
- Psychology: 9 credits beyond General Psychology, chosen from the following: Mental Hygiene, Abnormal Psychology, Social Psychology, Adolescent Psychology, Personality, Foundations of Rehabilitation Counseling, Interviewing Techniques. Mental Hygiene or Abnormal Psychology is required.
- Sociology: 9 credits beyond Introduction to Sociology, chosen from the following including Juvenile Delinquency; and Criminology. Criminology; and Juvenile

Delinquency PLUS one of the following: Social Welfare; \*Urban Sociology; Community Organization; Minority Groups; Collective Behavior; Social Deviance.

Approved electives recommended to Law Enforcement students:

Business Administration: Business Management; Accounting Principles I; Accounting Principles II; Business Law I; Business Law II; \*Personnel Management.

Geography: Intro to Urban Planning; Principles of Zoning; Urban Geography.

Political Science: Introduction to Law; Constitutional Law.

\* Please note possibility of additional prerequisites for certain courses.

## AFRICAN-AMERICAN STUDIES PROGRAM

The African-American Studies Program offers a student the opportunity to study in-depth the historical and cultural existence of the Afro-American by examining his unacknowledged roles in American society, and the presence and importance of the Black aesthetic culturally, socially, politically, and economically. An interdisciplinary program concentrating mainly in the humanities, the curriculum is subject to review and flexibility, as courses may be added or subtracted with the permission of the Advisory Committee and the Associate Dean.

Students may choose a major in the program, select courses to structure major within the General Studies Program, or simply take courses as electives.

For further information, please contact one of the following advisors:

## Advisory Committee

Johnnella Butler, Coordinator of the Program, Department of English Thomas Knox, Associate Dean, Student Services James Lindner, Education Department

James Lindner, Education Department

Richard Nzeadibie, History Department

## Major Requirements

A. American Literature 30.211-212 recommended United States History 30.145-40.146 required Introduction to Sociology 80.101 required

B. 15 hours of required courses in African-American Studies

Survey of Black-American Literature 30.251
Survey of Black American Literature 30.252 (Major Writers)
History of Black Americans 40.381
African World I 40.133
African World II 40.134

C. 15 hours chosen from the following courses (check department for the course description)

Literature of Black America	30.401
The Geography of Africa	34.431
Urban Geography	34.391
Introduction to Urban Planning	34.002
African Government and Politics	68.341
Africa in World Politics	68.435
Sub-Saharan Africa	40.333
Afro-American Perspectives	33.401
History of West Africa 1500-1885	40.334
History of Contemporary Africa	40.335
Minority Groups	80.381
Black White Relations	80.470
Blacks in America: Myths and Realities	80.241
Urban Sociology	80.344

24.351 Urban Economics Number not assigned History of Afro-American Art New courses, special topics, and mini-mester courses may be accepted toward the major with approval of the committee.

33.401 (4901.401) AFRO-AMERICAN PERSPEC-TIVES (3) Afro-American Perspectives is a college credit course combining televised lessons, on-campus seminars, and related workbook assignments. This course focuses upon the experiences of Black people. The course utilizes a multi-discipline format and

inter-disciplinary treatment. It is structured around several themes, inquiry into which will encourage scholarly development in an otherwise emotional arena. Prerequisites: Either African History or Black American History or Black American Literature or consent of instructor.

#### AMERICAN STUDIES

Coordinator: DR. PAUL DOUGLAS

## The Program

The American Studies concentration within the General Studies major at Towson State College is an interdisciplinary program that allows a student to take courses in different academic departments. The American Studies approach stresses the inter-relatedness of such elements in our society as the fine arts, architecture, popular culture, folklore, technology, and the vernacular arts. Students examine American institutions, ideas, and material forms in order to better understand their past and shape their future. Although the American Studies major will have a knowledge of literature, history, economics, and art, his main concern will be within the concept of culture as it applies to the United States.

The degree granted is the B.A. or B.S. in General Studies with a concentration in American Studies.

## Who Should Major in American Studies?

Those students desiring to pursue careers in American Studies. The program at Towson State provides an important foundation for graduate work at the M.A. or Ph.D. level in American Studies. Presently there are over fifty graduate programs in the United States offering American Studies degrees.

Those students who wish to do American Studies related work in fields such as teaching, historic preservation, journalism, museum administration, law, history, literature, and others.

Those students who may not have any concrete career goals but who desire a broad knowledge of American civilization and a methodology to understand and interpret it. The program welcomes older students who may apply their knowledge of our culture to their academic or intellectual interests.

## Major Requirements

The following lower division courses must be taken by the American Studies major:

American Literature 1 and 2; or Black Literature 1 and 2

American History 1 and 2

Cultural Anthropology

American National Government

The following upper division courses are required:

Introduction to American Studies

Seminar in American Studies

American Literature core (15 hours) and American History (6 hours)

American History core (15 hours) and American Literature (6 hours)

American Studies related courses in various departments (12 hours)

Additional courses in the Arts and Sciences (6 hours)

- 33.301 (4901.301) INTRODUCTION TO AMER-ICAN STUDIES (3) The first part of the course will be an examination of the aims and methods of American Studies. The second part will be a study of a specific topic or period in American civilization by examining literature, the fine arts, architecture, history, technology, and popular culture. Prerequisites: 6 hours of American history or 6 hours of American literature.
- 33.481 (4901.481) SEMINAR IN AMERICAN STUDIES (3) Reading and research dealing with an aspect of American civilization and

- culture to be selected by the instructor. A seminar paper is required. Prerequisites: 33.301.
- 33.497 (4901.497) PRACTICUM IN MATERIAL CULTURE (3) Students will work with members of the curatorial staff at the Maryland Historical Society to learn various museum techniques, examine the collections at the Society, and understand the educational and scholarly uses of material culture. A minimum of 80 hours is required. Prerequisites: 33.301 and consent of American Studies coordinator.

#### WOMEN'S STUDIES

The Women's Studies concentration within the General Studies major is an interdisciplinary program which offers students the opportunity to study the particular nature and role of women as individuals and as members of society. The concentration consists of nine hours in a core curriculum of three interdisciplinary courses: 33.231 Women in Perspective, 33.331 Women in Society, and 33.332 Women in Art and Literature, plus a minimum of eighteen hours selected from department courses in Women's Studies. 33.231 Women in Perspective is strongly recommended as preparation for any upper division work in Women's Studies. Each program is individually tailored to the needs and interests of the student. Students must consult with a Women's Studies faculty advisor to plan their program. The student is reminded that a total of forty-five upper division hours is requested for the completion of a General Studies Major.

The Women's Studies concentration is administered by a committee of faculty and students. The faculty members on the committee will serve as advisors to students majoring in the program:

Sara Coulter, English Jo Ann Fuchs, Philosophy Elaine Hedges, English Judy Markowitz, Women's Studies Joan Rabin, Psychology

Fred Rivers, History Jane Sheets, Modern Languages Elaine Solez, English John Toland, Sociology Jan Wilkotz, English

The following interdisciplinary and departmental Women's Studies courses are currently in the curriculum. More courses are under development. The departmental courses can be taken as electives for departmental credit and/or applied to the thematic concentration in Women's Studies.

#### Interdisciplinary

	General Studies		Women in Perspective Women in Society Women in Art and Literature
De	epartmental		
	Art	12.216	The Image of Women in Art
	English	30.474 30.474	Topics in Women's Studies: Women Writers Topics in Women's Studies: Women and Drama
	History	40.491	Biographical Studies in History: British and American Women
		40.492	Historical Themes: African American Women in History
		40.492	Historical Themes: The Place of Women in European History

Modern Languages	32.437 32.437	Women in Foreign Literatures in Translation: Frenchwomen, Myth and Reality Women in Foreign Literatures in Translation: European Fiction by Women
Philosophy	58.331 58.44 58.44	Concepts of Woman: An Historical Approach Philosophical Systems: Simone de Beauvoir Philosophical Systems: Twentieth Century Women Philosophers
Physical Education	60.441	The Sportswoman in American Society
Psychology	70.323	Psychology of Women
Sociology	80.	Comparative Study of Sex Roles

- 33.231 (4901.231) WOMEN IN PERSPECTIVE (3)
  A survey of the past, present, and possible future place of women as individuals and as members of society.
- 33.331 (4901.331) WOMEN IN SOCIETY (3) An examination of the distinctive role and contribution of women in society from the perspectives of several disciplines, primarily the social sciences. Prerequisites: 6 hours in the social sciences.
- 33.332 (4901.332) WOMEN IN ART AND LITERA-TURE (3) Study of selected art and literature by women with emphasis on the nature of the contributions of women and the

conditions for creativity. Prerequisites: 6 hours in art and/or literature.

33.491 (4901.491) DIRECTED READING IN WOMEN'S STUDIES (1-4) Independent reading in Women's Studies with emphasis on interdisciplinary relationships. Topic selected by student in consultation with the instructor. Prerequisites: 15 hours in interdisciplinary or departmental Women's Studies courses; minimum 3.00 average in Women's Studies; consent of instructor and coordinator of Women's Studies. May be repeated for credit.

#### THEMATIC PLAN: COMPARATIVE ETHNIC STUDIES

The Comparative Ethnic Studies concentration within the General Studies major is an interdisciplinary program that provides literary, historical, political, sociological, economic and geographic perspectives on American ethnic groups with an emphasis on Baltimore's communities. Courses examine the impact of race, religion, family and community on Ethnic-Americans and their development in the United States.

The Comparative Ethnic Studies program prepares students to live in a multi-ethnic society and for positions in education, social work, personnel, human relations, labor relations, urban planning, mental health, government service and other areas where an awareness of ethnic diversity, problems, and needs are essential.

The Comparative Ethnic Studies concentration is administered by an advisory committee. The faculty members on the committee will serve as advisors to students majoring in the program.

Douglas Martin, History
Evelyn Avery, English
Anthony Cacossa, Modern Languages
Julius Chapman, Associate Dean of
Minority Students
Vincent Colimore, Education
Sara Coulter, English
Dean Esslinger, History

Hlib Hayuk, Geography
Thomas Knox, Acting Vice President, Student Services
George Kranzler, Sociology
James Lindner, Education
Jean Scarpaci, History
Ann Scheper, Sociology

## Major Requirements

A. United States History
American Literature
Introduction to Sociology

40.145-146 recommended 30.212 recommended 80.101 recommended

45 upper division hours are required for graduation and may be taken in Comparative Ethnic Studies and in other disciplines.

В.	9 hours required	
	Introduction to Comparative Ethnic Studies	33.241
	Ethnic-American Literature	30.261
	The Immigrant in American History	40.377
C.	18-27 hours chosen from the following courses	
	Topics in Multi-Ethnic American Literature	30.475
	The City in American History	40.375
	Indian-White Relations in American History	40.379
	Oral History: Ethnic Communities of Baltimore	40.489
	Urban Economics	24.351
	Urban Government & Politics	68.305
	Group Politics & Public Opinion	68.450
	The Young Black Child in a Multi-Cultural Setting	25,425
	History of Black Americans	40.381
	Afro-American Literature	30.401
	Six credits of related language courses approved by th	e committee

33.241 (4901.241) INTRODUCTION TO COMPAR-ATIVE ETHNIC STUDIES (3) The course will focus on Baltimore's ethnic groups as a microcosm of American society, and will examine the interaction of ethnic communities (Black, Jewish, Italian, Greek, Eastern-

European, Irish, aand others) in Baltimore. The interdisciplinary approach will use the talents of social scientists, community representatives, and public school personnel as consultants and guest lecturers.

## Health Services Management

The Health Services Management program is designed to help prepare students for management careers as administrative assistants, nursing home administrators, health planners, hospital or health care administrators, health planners, hospital or health care administrators, or varieties of middle management personnel such as department heads or supervisors. Depending upon student interests and availability of positions graduate training in health administration may be desirable after completing this program.

The Health Services Management program is administered by the Health Science Department. For advising contact the Chairperson of the Health Science Department.

The specific requirements of this thematic option consist of the following:

#### Health Science

41.202 Principles & Practices in Public Health

41.207 Medical Care in the United States

41.311 Epidemiology

or

41.3Chronic & Communicable Disease Upper Division Health elective

#### Business Administration

16.325 Business Law

16.331 Financial Management

16.381 Personnel Management

Upper Division Business Administration elective

#### Other Required Related Courses

24.201 Economics of Health

23.235 Fundamentals of Computing

80.495 Research Methods

Laboratory Science elective

68.375 Public Administration

30.333 Writing for Business and Industry

## Necessary Prerequisites

41.101 Current Health Problems

16.201 Accounting Principles

24.101 & 02 Economic Principles & Problems

80.101 Introduction to Sociology

68.103 Introduction to American National Government

50.231 Basic Statistics

Twenty-one additional credits of upper division electives should be completed under advisement.

Ecological Aspects of Health, and two health elective courses. Other Required Courses: 14.101 Contemporary General Biology, 22.100 Chemistry for Non-Scientists or 22.101 General Chemistry, 14.113 Human Anatomy and Physiology, 14.114 Human Anatomy and Physiology, 14.315 Medical Microbiology, 16.101 Introduction to Business Management, 24.101 Economic Principles and Problems I, 24.201 Economics of Health, 70.101 General Psychology, 80.101 Introduction to Sociology, 50.231 Basic Statistics (special section for health majors), and two semesters of physical education electives. It is strongly recommended that students electing the community health track also complete a minor in sociology, biology, psychology, or other appropriate related area.

## School and Community Health Specialization

Professional Education; 29. 101 Careers in Education, 70.203 Educational Psychology, 28.319 Survey of Educational Programs, 27.401 Foundations of Education, 27.398 Student Teaching, and 41.205 Health Education in the School II. Health Requirements; 41.101 Current Health Problems, 41.103 First Aid, 41.201 Health Education in the School I, 41.202 Principles and Practices in Public Health, 41.208 Mental Health, 41.302 Preparation for Field Work in Public Health, 41.303 Field Work in Public Health, 41.401 Sex Education and Family Life, 41.402 Health Seminar, 41.405 Drugs in Our Culture, and one health elective course. Other Required Courses: 14.101 Contemporary General Biology, 22.100 Chemistry for Non-Scientists or 22.101 General Chemistry, 14.113 Human Anatomy and Physiology, 14.114 Human Anatomy and Physiology, 14.315 Medical Microbiology, 70.101 General Psychology, 80.101 Introduction to Sociology, 50.231 Basic Statistics (special section for health majors), and two semesters of physical education electives.

# Graduate Program

A specialization in health education as part of a Master of Education program in Secondary Education has recently become available. For further information consult the graduate studies bulletin.

## Health Services Management

For further information see Health Services Management under Arts and Sciences on page

## Lower Division—Undergraduate

41.101 (1201.101) CURRENT HEALTH PROBLEMS (3) Health problems of current interest or importance on an individual, community, national, and international basis. Includes a general overview of the state of nation's health.

41.103 (1201.103) FIRST AID (2) Designed for people who may be called upon to give first aid care in the course of their daily activi-

ties. Course content of the American Red Cross Standard First Aid and Personal Safety Course is included. The Red Cross Standard First Aid Certificate is awarded. (Does not meet general college graduation requirement.)

41.104 (1201.104) PARENTAL AND CHILD HEALTH (3) An introduction to parental and child health in its contemporary, social, and

cultural setting. Discussion will include parenthood, prenatal care, growth and development of the child, the school environment, physical handicaps, and public health programs serving the maternal, infant, and preschool populations. Prerequisite: 41.101.

## GENERAL STUDIES COURSES (GEST)

COMMENCING WITH THE 1976-77 ACADEMIC YEAR, THE CURRENT ALPHABETICAL DESIGNATION "GEST" WILL BE REPLACED BY A NUMERIC CODE OF 4901.

- 33.101 (4901.101) SENTENCE SENSE: GRAMMAR FOR COLLEGE COMPOSITION (1) Intensive work in the grammar and mechanics of the language. While major attention is focused upon elements of the sentence and sentence structure, extensive time is directed also to some of the major problems in syntax and structure.
- 33.105-106 (4901.105-106) JAPANESE ELEMENTS
  I, II (3, 3) Development of elementary vocabulary and sentences, forms of written language, conversation, composition and translation. This course will be given using the techniques of programmed instruction.
- 33.107-108 (4901.107-108) PORTUGUESE ELE-MENTS I, II (4, 4) A thorough foundation in grammar; drills in pronunciation; elementary conversation; composition and translation.
- 33.110 (4901.110) EXPLORATIONS IN COMMUNICATION SKILLS (4) A course designed to enhance the student's ability in the four communications skills reading, writing, listening, and speaking; to enable the student to understand the interdependency of these skills and to recognize them as the foundation for success in other disciplines.
- 33.111-112 (4901.111-112) ELEMENTARY MODERN CHINESE I, II (3, 3) The first and second of a series of four courses in Chinese Language. An introduction to standard modern Chinese (Mandarin). Emphasis is on reading and writing of Chinese. Pin Yin, the phonetic system of pronouncing Chinese words is introduced. Text, sound tape and vocabulary cards.
- 33.140 (4901.140) PERSPECTIVES ON ORIENTAL ARTS (3) Lectures, displays, and discussions by a number of experts on the various types of oriental art. The course is designed to acquaint the novice and the experienced as well with deeper insights into the oriental culture through an examination of art objects in the college's own collection; additional objects brought by guest speakers themselves, and by discussions led by guest speakers.
- 33.195 (4901.195) CLASSIC CULTURE OF JAPAN (3) A study of the factors which molded and estalished the Japanese culture from 1000 AD to 1900.
- 33.196 (4901.196) SELECTED TOPICS IN GENERAL STUDIES (1-3) Study of a topic in a specialized area to be selected by the instructor and student. Each topic must be approved by the Curriculum Committee. Prerequisites: Permission of the Associate Dean.
- 33.198 (4901.198) PHILOSOPHY OF GENERAL STUDIES (3) An introduction to the con-

- cepts of a liberal education through readings, lectures, and discussions. Prerequisites: Must be taken simultaneously with 33.199.
- 33.199 (4901.199) PRACTICUM IN GENERAL STUDIES (3) Life experiences in the major areas of a liberal education — museums, theatre, historical landmarks, concerts, etc. Prerequisites: Must be taken simultaneously with 33.198.
- 33.201 (4901.201) CLASSIC JAPANESE ARTS AND CULTURE (2) Study of Japanese Arts and Culture from C. 1000 A.D. to 1900 A.D. through directed independent readings.
- 33.205-206 (4901.205-206) JAPANESE: INTER-MEDIATE III, IV (3, 3) Review of elementary Japanese; intermediate Kanji; conversation and prose composition; translations; outside readings commensurate with the ability of the individual student. This course will be given using the technique of programmed instruction. Prerequisites: 33.105-106.
- 33.207-208 (4901.207-208) PORTUGUESE INTER-MEDIATE I, II (4, 3) Review of grammar, conversation and prose composition; translation of texts of cultural value; outside readings. Prerequisites: 33.107-108 or equivalent.
- 33.211 (4901.211) EDITORIAL CARTOONING AND ITS PRACTITIONERS: JOURNALISM'S POLITICAL GADFLIES (2) This series of lectures by the former editorial cartoonist for the Baltimore News-American will look at the most lively aspect of the daily newspaper's editorial page. Included are a review of the history of editorial cartooning, an analysis of the works of some of today's most prominent cartoonists and insights into how editorial cartoons are created. No drawing or artistic talent will be required.
- 33.421 (4901.421) INTERDISCIPLINARY WORK-SHOP IN ASIAN STUDIES (3) Intensive study of a chosen region of Asia, including its physical environment, historical development, government, society, culture, and their interrelationship. An interdisciplinary team of faculty experts will participate, and the region of Asia will vary according to demand. Prerequsites: Approval of coordinator.
- 33.501 (4901.501) INTRODUCTORY SEMINAR IN GENERAL STUDIES (3) For graduate students in the Master of Arts in General Studies degree program. A seminar course in which disciplines are examined from philosophical, methodological, utilitarian and other viewpoints. Each participant prepares for this purpose an analysis and description of his/her undergraduate major discipline or area of concentration.

\*The Audiovisual Communications title has been changed to Instructional Technology; along with several course title and description changes. Due to lateness in approvals, these changes are not reflected in this catalog. Please contact the department for further information.

# Audiovisual Communications\*

Professor: LOGAN

Associate Professors: WEST, ROSECRANS (Chairperson)

Assistant Professor: BURTON Instructors: DIETZ, JONES, BARNES Assistant Instructor: SHOWMAN

The Audiovisual Communications Department is undergoing a number of program changes. In addition to the current graduate program, the Department is planning a second track which will prepare the media professional for certification by the Maryland State Department of Education as an Educational Media Generalist (Level II). Details about this program are available from the Audiovisual Communications Department.

Additional undergraduate courses are planned to prepare students for certification by the Maryland State Department of Education as an Educational Media Associate (Level I).

The current graduate program is designed to prepare media professionals in education, government, business and medicine in specialties such as instructional television, photography and graphics, and audiovisual communications (see Graduate Studes Bulletin).

#### AUDIOVISUAL COMMUNICATIONS COURSES (AVCO)

COMMENCING WITH THE 1976-77 ACADEMIC YEAR, THE CURRENT ALPHABETICAL DESIGNATION "AVCO" WILL BE REPLACED BY A NUMERIC CODE OF 0601.

#### Upper Division — Undergraduate Only

- 13.301 (0601.301) SURVEY OF INSTRUCTIONAL MEDIA (3) Demonstrations and supervised experiences are provided to emphasize skills and techniques used to operate basic multisensory equipment and devices used in the classroom. Contributions, values, and principles of audiovisual communications are correlated with utilization of equipment and devices. Not open to students who have taken 13.415 Methods and Materials in New Education Media.
- 13.302 (0601.302) METHODS AND MATERIALS IN INSTRUCTIONAL MEDIA (3) Stressed are the skills used in the preparation and production of selected types of sensory materials of instruction. Various methods and techniques are also employed to demonstrate how these materials can be utilized effectively in instructional communications.
- 13.304 (0601.304) THE PRODUCTION OF IN-STRUCTIONAL PRESENTATIONS (3) Emphasis is placed on both the basic knowl-

- edge and skills necessary to produce instructional presentations in four major formats: audio tape, video format, synchronized slide-tape program, and super 8mm film properly sequenced. Student acquires experience in producing each of the four types of productions as well as developing instructional guides accompanying each. Prerequisites: 13.301 or 13.302 or departmental approval.
- 13.369 (0601.369) LABORATORY IN NEW EDUCA-TIONAL MEDIA (1 or 2) Experience in operation of multisensory aids to teaching, preparation of teaching aids, and application of transparencies, tape and video recordings, slides, filmstrips, motion pictures and still pictures to the modern classroom.
  - a. Required of all Secondary Education majors during student teaching: course 315, or 301 may also be used to fulfill this requirement.
  - Not open to students who have completed AVCO 301 or 315.

## Upper Division — Undergraduate and Graduate

13.401 (0601.401) HISTORY OF INSTRUCTIONAL TECHNOLOGY AND MATERIALS (3) An examination of the development of instructional

technology with particular emphasis on the influence of government, state departments of education, institutions of higher learning,

industry, and professional organizations on the various instructional media. Identification of the contributions of media leaders. LAB FEE \$5,00.

- 13.415 (0601.415) METHODS AND MATERIALS IN NEW EDUCATIONAL MEDIA (3 or 4) Methods of instruction through media such as television, motion pictures, audio and video recordings, transparencies, field trips, slides, etc., are emphasized. The communications process is stressed throughout as are the selection, source locations, utilization, and evaluation of equipment, devices and materials. Students are required to demonstrate competencies in the operation of basic devices for instruction. LAB Fee \$5.00.
- 13.417 (0601,417) CLASSIFICATION AND CATA-LOGING OF AUDIOVISUAL MATERIALS (3) Emphasis is placed on all types of classifying and cataloging non-print materials in accordance with the Dewey Decimal System. Other systems of classification and cataloging are surveyed. Rules for form of entry, factors determining choice and form of subject heading and descriptive cataloging are studied. This course is designed especially for librarians, media specialists, and teachers. Audio-visual equipment, devices, and materials are used to optimum advantage throughout. LAB FEE \$5.00.
- 13.431 (0601.431) SURVEY OF LEARNING BY TELEVISION (3) History, status, and goals of television used for learning. Topics include: television systems (cable, satellite, etc.), programming sources, legal ramifications, instructional television, sources of funds, comparative costs, special projects, current research, and sources of data. Students will be required to demonstrate competencies in the operation of some portable television equipment. LAB FEE \$5.00.
- 13.433 (0601.433) INSTRUCTIONAL TELEVISION (3) The ITV movement, ITV systems and terminology, elements of production, classroom utilization of the ITV product, developing the ITV workshop, careers in ITV, and aspects of administration, philosophy, evaluation and research in ITV. Students will be required to demonstrate competencies in critiqueing ITV programs, and in the writing and production of scripts utilizing appropriate television facilities. LAB FEE \$5.00.
- 13.435 (0601.435) INSTRUCTIONAL TELEVISION UTILIZATION (3) A college credit course combining televised lessons, on-campus seminars, and related workbook assignments. This three credit upper divison undergraduate and graduate level course focuses upon planning for the various uses of instructional television with students. State, local school unit, school, and classroom uses will be illustrated through film and studio production. In addition, the production elements for ITV prorgamming are developed

- through the television lessons and "handson" assignments in the seminars. Credit cannot be earned for this course and 14.431. Prerequisite: Student teaching or practicum experience and junior standing.
- 13.441 (0601.441) COMPUTER TECHNOLOGY AND UTILIZATION (3) Exploratory course concerned with the rationale for and use of computers in learning and related administrative matters. Techniques are examined for the organization, storage, processing, and retrieval of data. Applications include the computer for instruction, the management of instruction, simulation, generation of graphics, and accounting for software and hardware. Keypunching, flow charting, and shared-time computer installations are provided. Field trips to on and off campus computer installations are taken. (Note: the course will not prepare students for occupations in computer science). LAB FEE \$5.00.
- 13.453 (0601.453) INTRODUCTION TO AUDIO-VISUAL PHOTOGRAPHY (3) Basic philosophy, planning and darkroom methods and techniques of preparing photographic audiovisual materials. Although the thrust of the course is the black and white mode, color slides and other special topics are treated. Principles of visual literacy are stressed. Students are required to demonstrate competencies in darkroom utilization and print critiqueing as well as print production. LAB FEE \$10.00.
- 13.455 (0601.455) GRAPHIC COMMUNICATIONS (3) Language and design of graphics communications; principles from psychology and the visual arts; basic design principles; laboratory experiences such as layout, air brush techniques, "stat-king" utilizations, headliner and polaroid systems familiarization. LAB FEE \$10.00.
- 13.485 (0601.485) SEMINAR WORKSHOP IN IN-STRUCTIONAL TECHNOLOGY (3) Special problems in instructional technology are treated. Included are the philosophy, scope, planning, and techniques of the preparation and production of selected types of photographic and related graphic materials. Computer assisted instruction, random access and information and retrieval systems, simulators and trainers as well as significant developments in hardware and software are stressed. International aspects are also included. Field trips are part of the class experience. LAB FEE \$5.00. Prerequisite: Three hours of audiovisual communication courses at the 400 level or above, or departmental approval.
- 13.487 (0601.487) THEORY AND TECHNIQUES OF LINEAR PROGRAMMED INSTRUCTION (3) Acquaints students with philosophy and principles of linear programming; analysis and evaluation of commercially prepared and instructor-made programs; instructional utili-

zation; current research, developments, and trends. An opportunity is provided for the student to develop a linear program in his own area of concentration. LAB FEE \$5.00.

13.488 (0601.488) THEORY AND TECHNIQUES OF INTRINSIC PROGRAMMED INSTRUCTION (3) Principles and philosophy of intrinsic programming as related to the Crowderian techniques of programming; analysis of development; consideration of psychological learning principles involved; relation to and utilization in computer-assisted instruction. An opportunity is afforded the student to develop an intrinsic program in his area of interest. Prerequisite: 13.487 or instructor approval, LAB FEE \$5.00.

#### Graduate Division

- 13.501 (0601.501) ORGANIZATION, ADMINISTRA-TION AND SUPERVISION OF AUDIO-VISUAL COMMUNICATIONS PROGRAMS (3) Organizational patterns, management procedures, and supervisory methods and techniques for instructional materials centers are considered. Major topics include: facilities; finance; selection; procurement; security and basic maintenance of equipment and materials; center operation; extension and in-service programs; assessments of systems and programs; and public relations. LAB FEE \$5.00. Prerequisite: Six hours of audiovisual communications courses at the 400 level or above (13.415 or equivalent is strongly recommended) and/or departmental approval.
- 13.533 (0601.533) AUDIOVISUAL MOTION PIC-TURE FILMMAKING I (3) This course provides an introduction to the production of motion picture films designed for audiovisual instructional use. Included in the course are basic audiovisual filming techniques, audiovisual scripting, editing, and a survey of motion filming equipment. LAB FEE \$10.00. Prerequisites: Two audiovisual courses at 400 level or above, including 13.415 or departmental approval.
- 13.534 (0601.534) INDEPENDENT STUDY: AUDIO-VISUAL MOTION PICTURE FILMMAKING II (3) This course, building on previously acquired fundamentals, culminates in the production of an instructional motion picture for audiovisual classroom use. To this end, the student will explore and develop a working knowledge of scriptwriting techniques, directional techniques, including areas such as: background, audio, lighting, and optics applications. Special effects techniques, such as animation, slow and stop motion will be developed in the course. Independent study under close supervision of instructor. Prerequisites: 13.533.
- 13.557 (0601.557) SPECIAL PROJECTS IN THE PREPARATION OF AUDIOVISUAL MATERI-ALS (3) The theory, planning, and application of advanced methods and techniques in the preparation of audiovisual materials will be stressed. Student projects may involve aspects of photography, printing, holography, and related materials production. Field trips will also play an important role. Prerequisite: 13.453 or departmental approval. LAB FEE \$5.00.

- 13.563 (0601.563) APPLIED PSYCHOLOGY OF LEARNING (3) Includes Gagne's types of learning and recent psychological findings as applied to instructional communications in such areas as: programmed instruction, sensory materials of learning, random access and information retrieval systems, and instructional television. LAB FEE \$5.00.
- 13.567 (0601.567) INSTRUCTIONAL DEVELOP-MENT (3) Includes an overview of the systems approach and its use in problem solving. The application of the systems approach with instructional technology to the problems of instruction is studied in detail. Students are required to demonstrate competencies in designing mediated instructional sequences and in evaluating media with behavioral descriptors. Prerequisite: 6 hours of audiovisual communications courses at the 400 level or above (including 13.563) or departmental approval.
- 13.573 (0601.573) INSTRUCTIONAL FACILITIES DESIGN (3) A systems approach to the integration of media and facilities into a single unit to fulfill instruction/training goals. Includes a schedule of time and sequential phasing to insure orderly relationships and interaction of human, technical, and environmental resources. Included are the application of equipment and facilities designed to mediate self instruction as a part of individually prescribed instruction as well as equipment and facilities designed for large group or multi-media instruction. Student projects include facility designs for academic training utilization. Prerequisite: Six hours of audiovisual communications courses at the 400 level or above and/or departmental approval.
- 13.689 (0601.689) INTERNSHIP IN AUDIOVISUAL COMMUNICATIONS (3-6) Practical experience in audiovisual communications is provided. The intern will work cooperatively under the direction of an appropriate College faculty member and an appropriate media field supervisor. Field trips may range from visits to local facilities to national agencies. A formal paper is required, appropriate in format and length to the nature of the internship. Prerequisite: Nine hours of audiovisual communications courses at the 400 level or above, and departmental approval.

- 13.695 (0601.695) THEORY AND RESEARCH IN AUDIOVISUAL COMMUNICATIONS (3) Basic elements of communications theory are studied and applied to audiovisual communications. Relationships between the learning process and perception are reviewed in terms of communications. Selected communications systems are examined and research in audiovisual communications is analyzed and discussed. Prerequisite: 12 hours of audiovisual communications courses at the 400 level or above, or departmental approval.
- 13.699 (0601.699) MASTER'S THESIS IN AUDIO-VISUAL COMMUNICATIONS (3) An original investigation, using an acceptable research method and design of a research problem, to be conducted under the direction of one or more faculty members. Credit granted only after thesis has been accepted by student's thesis committee. Prerequisites: Fifteen hours of audiovisual communications courses at the 400 level or above and departmental approval.



# Biological Sciences

Professors: ERICKSON (Chairman), KUNDIG, MUMA, ODELL

Associate Professors: ANDERSON, DAIHL, HILTON, MORSINK, SHOEMAKER, WALKER, WINDLER

Assistant Professors: AKINYEMI, BUCHANAN, CREIGHTON, EWIG, FORESTER, HENRIKSON, HILTON, JOHNSON, LAINHART, LAUTERBACH, LEWIS, MECHLING, SCARBROUGH, SCHUETZ, SMOES

Instructors: HOOE

Students interested in biologically oriented careers in teaching, fundamental and industrial research, medicine, dentistry, pharmacy, veterinary science, oceanography, conservation and allied fields should major in this department. Staff members will aid each student in designing a program to meet his special needs.

## Biology Major

The requirements for the major are: Biology 14.101, 14.105, 14.109, 14.331, 14.351, 14.401 and eight credit hours from other courses offered by the department; Chemistry 22.101, 22.102, and 22.230 or 22.331; Physics 66.211 and 66.212 and Mathematics 50.115. At least 15 hours in Biology must be taken while in residence at Towson State College. Students are urged to take General Chemistry during their freshman year, Organic Chemistry in their sophomore year, and Physics as soon as possible.

Biology 14.301, 14.303 and 14.387 may not be included in the basic 32 hours required for the major without permission of the department chairman. Biology majors may substitute 2 semesters of Human Anatomy and Physiology (14.113, 14.114) for Functional Anatomy of Vertebrates (14.109) with the following stipulations: both 14.113 and 14.114 must be taken to receive credit for either semester and only 4 credits (of the total 8) may be applied to the biology major. A maximum of four credit hours in any combination of 14.195, 14.295, 14.395, 14.481, 14.491 and 14.495 may be applied to the thirty-two hours required for the major.

Honors Program: To graduate with honors in biology a student must complete Biology 14.486 and 14.498-14.499 to be taken in consecutive semesters of the senior year. The research thesis must be presented in an oral defense before the Honors Research Committee. An oral presentation open to the public is also required. In addition, a minimum of three credit hours must be selected from 14.491 and/or 14.481 in the junior year. For eligibility and general information consult the College Honors Program description.

# Medical Technology

This program is listed under Health Science. Students should consult Dr. Carl Henrikson of the Biological Sciences Department, Director of Medical Technology, for further information.

## Natural Science Major

The program is designed to give a broader view of the sciences than is obtained in a traditional undegraduate major in a single science. This is done at the sacrifice of depth and students should therefore be aware that this major may not prepare them for graduate work in a single science. Course requirements are: Biology 14.101, 14.105, 14.109; Chemistry 22.101-102; one course either 210, 211, 330 or 331; Mathematics 50.115; Physical Sciences 64.121, 64.211; Physics 66.211-212 or 64.221-222); Biology 14.491 or Physical Sciences 64.401; biological or physical sciences electives (including one field course) for eleven credit hours, for total of 54 hours in physical sciences, biological sciences, and mathematics.

Prospective secondary school teachers of general science should elect this major. To meet State Certification requirements for general science teaching, eighteen hours must be taken in a science field. However, to teach biology, physics, or chemistry in the senior high school a minimum of twenty-four hours must be taken in the field in which certification is desired. Therefore, science electives should be selected with the students future teaching goal as a guide.

#### Graduate Program

The course of study leading to the Master of Science in Biology is designed to provide greater knowledge and understanding of biology and to help the student develop a proficiency in independent thought, inquiry and research. The student may pursue either the Thesis Program (30 credits and a thesis) or the Non-Thesis Program (36 credits). Detailed information regarding both programs is given in the Graduate Studies Bulletin.

#### BIOLOGY COURSES (BIOL)

COMMENCING WITH THE 1976-77 ACADEMIC YEAR, THE CURRENT ALPHABETICAL DESIGNATION "BIOL" WILL BE REPLACED BY A NUMERIC CODE OF 0401.

NOTE: 14.101 is a prerequisite for all other biology courses. For details on exemption from this required course, see the Academic Regulations section of this bulletin.

#### Lower Division — Undergraduate

- 14.101 (0401.101) CONTEMPORARY GENERAL BIOLOGY (4) The basic biological principles common to plants and animals. Topics include cell structure and process (both physical and biochemical), mitosis, gametogenesis, aspects of embryology, genetics, evolution and ecology. Average of two laboratory hours per week. Each semester.
- 14.105 (0401.105) GENERAL BOTANY (4) Morphology, anatomy, and physiology explored through the study of selected plant types. Average of two laboratory hours per week. Each semester.
- 14.109 (0401.109) FUNCTIONAL ANATOMY OF VERTEBRATES (4) Organ systems of selected vertebrate types with emphasis on basic physiological processes. Average of two hours per week in laboratory work. Students who have taken 14.113-114 Human Anatomy and Physiology may not take this course. Each semester.
- 14.113-114 (0401.113-114) HUMAN ANATOMY AND PHYSIOLOGY I, II (4, 4) Skeletal, muscular, nervous, respiratory, circulatory, digestive, excretory, endocrine, and reproductive systems. Average of two laboratory hours per week. In order to receive credit, both semesters must be completed. Courses must be taken in sequence except with special permission of the instructor. Students who have completed 14.109, Functional Anatomy of Vertebrates, may not take this course without permission of the Department. 14.113 each semester, 14.114 each semester.

- 14.195 (0401.195) COURSE RESEARCH (1) Research related to a specific course successfully completed by the student. By invitation or with the consent of the instructor. Each semester.
- 14.207 (0401.207) INTRODUCTION TO PALEON-TOLOGY (4) Examination of major forms of life with the emphasis on appearances, diversification, and extinctions during the different geologic periods. Spring, odd years.
- 14.221 (0401.221) INTRODUCTION TO ANIMAL PARASITOLOGY (4) A survey of the major groups of animal parasites and their vectors. Emphasis will be placed on the more important human parasites. Prerequisite: 14.109 or consent of instructor. Spring, even years.
- 14.235 (0401.235) ECONOMIC BOTANY (3) A study of the plants and plant products which provide man with various luxuries and necessities. Emphasis will be on higher plants commercially important in North America. Prerequisite: 14.105 or consent of instructor. Fall, odd years.
- 14.255 (0401.255) HUMAN SEXUAL BIOLOGY (3)
  Basic structure and function of the human reproductive system. Physiology of gametogenesis, fertilization and contraception, gestation, parturation, lactation and the biological aspect of sexual behavior.
- 14.295 (0401.295) COURSE RESEARCH (1) Research related to a specific course successfully completed by the student. By invitation or with the consent of the instructor. Each semester.

# Upper Division — Undergraduate and Graduate

14.301 (0401.301) FIELD NATURAL SCIENCE (4)
A study of various environments to determine their physical and biological components and

to understand the relationship of these forms to one another and to man. Emphasis is on field observation. An average of three Lab-

- oratory hours per week. Once each year. May not be used toward M.S. degree in Biology.
- 14.303 (0401.303) LIFE SCIENCE IN THE ELE-MENTARY SCHOOL (3) Emphases placed on the conceptual approach to science teaching, the modes of scientific inquiry, and the utilization of living organisms in the classroom. Prerequisite: 14.101. Each semester. May not be used toward M.S. degree in Biology.
- 14.310 (0401.310) ENVIRONMENTAL CONSERVA-TION (4) Basic conservation practices and problems. Soil, water, forest, and wildlife resources with emphasis on interrelationships. Specialists in various phases of local, state, and federal conservation work conduct or assist in the conduct of numerous field trips. Average of two laboratory hours per week. Once each year.
- 14.315 (0401.315) MEDICAL MICROBIOLOGY (4) General microbiological techniques. Pathogenesis of bacterial, viral, rickettsial and fungal diseases with emphasis on medically important bacteria. Recommended for students pursuing a career in the medical sciences. Prerequisites: CHEM 22.101, 22.102. The latter may be taken concurrently. Spring, each year. Either this course or 14.318, but not both courses, may count toward M.S. degree in Biology.
- 14.318 (0401.318) MICROBIOLOGY (4) A course investigating the basic principles of such groups of organisms as bacteria, protozoa, and lower plant forms, with emphasis on bacteria. Average of three laboratory hours per week. Prerequisites: CHEM 22.101. 22.102. The latter may be taken concurrently. Fall, each year. Either this course, or 14.315, but not both courses, may count toward M.S. degree in Biology.
- 14.322 (0401.322) MICROTECHNIQUE (3) Techniques used in preparation of plant and animal tissues for histological examination. Average of two laboratory hours per week. Prerequisites: CHEM 22.101, 22.102. Spring, even years.
- 14.331 (0401.331) FIELD AND SYSTEMATIC BOT-ANY (4) Plant kingdom centered around taxonomy and ecology. Methods of collection, identification, and preservation will be developed in the field and laboratory. Average of three laboratory hours per week. Prerequisite: 14.105 or consent of instructor. Each semester. May not be used toward M.S. degree in Biology.
- 14.341 (0401.341) PHYCOLOGY (4) The systematics, structure, ecology, physiology, and life histories of algae. Laboratory will include methods of collection, culture, and experimental study of selected species. Prerequisite: 14.105. Fall, even years.
- 14.345 (0401.345) MYCOLOGY (4) An introductory study of the morphology, classification, life histories, and economic applications of

- the fungi. Average of three laboratory hours per week. Prerequisite: 14.105. Fall, even years.
- 14.351 (0401.351) FIELD AND SYSTEMATIC VER-TEBRATE ZOOLOGY (4) Evolution, distribution, and definitive features of each class are studied comparatively. Extensive field and laboratory work deals with morphologic, taxonomic, ecological, and behavioral features of selected vertebrate groups and species. Average of three laboratory hours per week. Each semester. May not be used toward M.S. degree in Biology.
- 14.353 (0401.353) INVERTEBRATE ZOOLOGY (4) Aquatic and terrestrial species of phyla from the Protozoa through the Echinodermata with special emphasis on local forms. Economic, ecological, and taxonomic considerations. Average of three laboratory hours per week. Fall, each year.
- 14.360 (0401.360) HISTOLOGY (3) Tissues of the vertebrate body. Average of two laboratory hours per week. Prerequisite: 14.109. Spring, odd years.
- 14.367 (0401.367) GENERAL ENDOCRINOLOGY (3) Endocrine mechanisms regulating homeostasis and functional integrity of animals, with emphasis on vertebrates. Prerequisites: 14.109 or equivalent, CHEM 22.101, 22.102. Fall, even years.
- 14.371 (0401.371) ANIMAL BEHAVIOR (4) The classification and evolutionary aspects of behavior with emphasis on behavioral mechanisms. An average of three laboratory hours per week. Spring, odd years.
- 14.381 (0401.381) BIOLOGICAL LITERATURE (2) Familiarization with the literature of biology through the preparation of papers requiring a knowledge of techniques for exploring the literature. Two one-hour lectures per week. Prerequisite: at least 6 hours of biology. Fall, each year. May not be used toward M.S. degree in Biology.
- 14.383 (0401.383) HISTORY OF BIOLOGICAL CONCEPTS (3) Historical development of biological concepts through the reading of classical and contemporary writings. Fall, odd years. May not be used toward M.S. degree in Biology.
- 14.385 (0401.385) SELECTED GENERAL PRINCI-PLES IN BIOLOGY (3) Current directions of biological investigations will be discussed together with a treatment of recent contributions to biological areas and principles. Sufficient background will be given to provide coherence and understanding. Three one-hour lectures. Prerequisite: consent of instructor. Evening and summer programs. Not for graduate credit, but for recertification.
- 14.387 (0401.387) BIOLOGY IN SOCIETY Considerations given to the biological aspects of the environment; its concepts and problems and their effects upon the popula-

- tion. Once each year. May not be used toward M.S. degree in Biology.
- 14.395 (0401.395) COURSE RESEARCH (1) Research related to a specific course successfully completed by the student. By invitation or with the consent of the instructor. Each semester. May not be used toward M.S. degree in Biology.
- 14.401 (0401.401) GENETICS (4) Heredity and variation, and their application to evolution and development. Gene action at the morphological, physiological and biochemical levels. Laboratory work entails use of Drosophila, corn, and Neurospora in the application of genetic principles. Average of three laboratory hours per week. Prerequisites: CHEM 22.101, 22.102 and MATH 50.115 or consent of instructor. Each semester. May not be used toward M.S. degree in Biology.
- 14.402 (0401.402) GENERAL ECOLOGY (4) Basic principles of ecology. Interrelationships between animals and plants and their natural environments, emphasizing the specific biomes available for study in Maryland. Individual projects will be required. An average of two laboratory hours per week. Spring, odd years.
- 14.403 (0401.403) ADVANCED GENETICS (3) Emphasis on the molecular basis of gene action. Discussion of current work and methods related to the problem of gene structure, function, and mutation including the translation and regulation of genetic information. Prerequisite: 14.401 or its equivalent or consent of instructor. Spring, odd years.
- 14.404 (0401.404) ECOLOGICAL TECHNIQUES (3) A series of lectures and readings on standard investigative techniques employed by ecologists in the various specialty fields. An individual investigation, laboratory or field, using appropripate equipment, is required. Prerequisite: 14.402 or its course equivalent. Fall, even years.
- 14.406 (0401.406) LIMNOLOGY (4) A study of inland waters. The physical, chemical, and biological factors that affect fresh-water organisms, and some of the standard methods used to analyze these factors. Average of two laboratory hours per week. Prerequisites: CHEM 22.101, 22.102, PHYS 66.211, 66.212. Spring, even years.
- 14.408 (0401.408) CELL BIOLOGY (4) A study of the molecular and morphological organization of the cell in relationship to functions of the cell's organelles. An average of three laboratory hours per week. Prerequisites: 14.105, 14.109, CHEM 22.330 or 22.331. Spring, even years,
- 14.411 (0401.411) WILDLIFE BIOLOGY (4) Important wildlife species with emphasis on aspects of research and management. Specific techniques and problems are studied in the field. Average of two hours per week in laboratory and field work. Prerequisite: Permission of instructor. Fall, even years.

- 14.421 (0401.421) IMMUNOLOGY (4) Fundamental principles of immunology with emphasis on the nature of antibodies and antigens, blood groups, antibody - antigen reactions, hypersensitivity, autoimmunization, tumor immunology, artificial grafting and the preparation of vaccines. Prerequisites: 14.315 or 14.318 or consent of instructor. Fall, odd years.
- 14.429 (0401.429) BIOANALYSIS (3) Microscopic and biochemical methods used in determining major components and important contaminants of feeds, spices, stabilizers, adhesives, bakery materials, fats and oils, meat products, crystal mixtures, dairy products, etc. An average of two hours per week in laboratory and field work. Prerequisite: 14.105, CHEM 22.101, 22.102, or permission of instructor. Evening and summer programs.
- 14.431 (0401.431) HORTICULTURE (4) Basic principles and techniques of plant culture and their application to developing desirable plantings on home grounds or in public places with examples of appropriate types of plants for specific situations. Average of three laboratory hours per week. Prerequisite: 14.105. Spring, even years.
- 14.432 (0401.432) VASCULAR PLANT TAXONO-MY (4) A study of the history and principles of vascular plant systematics with laboratory time devoted to collection and identification of plants in the local flora. An average of two laboratory hours per week. Prerequisites: 14.105, 14.331 or consent of instructor. Fall, even years.
- 14.433 (0401.433) PLANT SPECIATION (3) A study of such speciation phenomena as race isolation, hybridity, polyploidy, pomixis, and self-compatibility as they influence the evolution of new populations. Prerequisite: 14.331. Spring, even years.
- 14.436 (0401.436) PLANT PHYSIOLOGY (4) Life functions of plants as related to structure at all levels: cells, organs, and the complete organism. Consideration of the interaction of environmental and genetic factors on plant metabolism. Average of three laboratory hours per week. Prerequisites: 14.105, CHEM 22.101, 22.102, CHEM 22.331 recommended. Spring, odd years.
- 14.439 (0401.439) PLANT ANATOMY (4) Origin and development of organs and tissue systems in vascular plants. Average of three laboratory hours per week. Prerequisite: 14.105. Spring, even years.
- 14.441 (0401.441) PLANT PATHOLOGY (4) A study of plant diseases, their symptoms, causal agents, etiology, epidemiology, prevention, and control. Average of three laboratory hours per week. Prerequisite: 14.105. Fall, odd years.
- 14.456 (0401.456) ORNITHOLOGY (4) Lecture, laboratory and field course in bird identification, structure, behavior, ecology, and general economic relationships. Emphasis is on

- birds of the Baltimore area. A banding station is operated in conjunction with the course. Occasional field trips. Average of two laboratory hours per week. Spring, even years.
- 14.458 (0401.458) MAMMOLOGY (4) The evolution, comparative morphology, systematics, and distribution of mammals. Representative life histories are considered. Average of two laboratory hours per week. Prerequisite: permission of instructor. Spring, odd years.
- 14.461 (0401.461) ENTOMOLOGY (4) Laboratory and field course in insects. Identification and recognition of the more common families and orders, and a study of their structure, behavior, ecology, economic importance, and control. Average of three laboratory hours per week. Fall, even years.
- 14.463 (0401.463) ANIMAL EMBRYOLOGY (4) Developmental anatomy and the underlying principles involved in development. This last area will be approached from an experimental base. Average of three laboratory hours per week. Prerequsite: 14.109. Fall, odd years.
- 14.465 (0401.465) ANIMAL PHYSIOLOGY (4) Functioning of animal organ systems, with emphasis on the vertebrate body. Average of three laboratory hours per week. Prerequisites: 14.109, CHEM 22.101, 22.102. Fall, odd years.
- 14.467 (0401.467) EXPERIMENTAL ENDOCRIN-LOLGY (2) An introduction to techniques and procedures commonly employed in endocrine research. Prerequisite: 14.367. Spring, even year.
- 14.481 (0401.481) DIRECTED READING IN BIOL-OGY (1-3) Independent reading in an area selected by the student in consultation with the instructor. Prerequisite: a minimum of 10 hours in biology. Each semester. May not be used toward M.S. degree in Biology.
- 14.486 (0401.486) SEMINAR: SPECIAL TOPICS IN BIOLOGY (1-2) Study and discussion of

#### Graduate Division

- 14.501 (0401.501) CURRENT TOPICS IN BIOL-OGY (3) Discussion of current topics in a specific area of biology. The area will vary each time the course is offered. A maximum of 3 credits allowable for M.S. degree in Biology. Prerequisites: A suitable background in the area emphasized. Evening and summer programs.
- 14.505 (0401.505) PROBLEMS IN BIOLOGY (1-3) Laboratory or literature research on a particular problem of interest to the student that does not pertain to his thesis. Regular conferences with the instructor are required. A preliminary paper is submitted for discussion, suggestions and corrections. The final paper should incorporate the necessary changes. Credits to be arranged by consul-

- topics in a specialized area to be selected by instructor. Areas will vary from semester to semester. Prerequisites: a minimum of 10 semester hours in biology or consent of instructor. (Consent of instructor is not considered necessary if student has had 10 semester hours in biology.) Spring, each year. May not be used toward M.S. degree in Biology.
- 14.491 (0401.491) INDEPENDENT RESEARCH IN BIOLOGY (2-3) Independent investigation of a problem under the supervision of a staff member culminating in a written presentation. Prerequisite: a minimum of 15 semester hours in biology and consent of instructor. Each semester. May not be used toward M.S. degree in Biology.
- 14.494 (0401.494) TRAVEL STUDY (1-3) Detailed investigation of field oriented problems in biology away from the Towson State campus. Locations and topics to be selected by the department and instructors sponsoring the program. Prerequisite: consent of instructor. Each year.
- 14.495 (0401.495) COURSE RESEARCH (1) Research related to a specific course successfully completed by the student. By invitation or with the consent of the instructor. Each semester. May not be used toward M.S. degree in Biology.
- 14.498 (0401.498) HONORS RESEARCH IN BIOL-OGY (2) Individual research of an extensive nature under the direction of a staff member. culminating in an honors thesis. Credit for 14.498 not awarded until 14.499 is successfully completed. Prerequisites: open only to advanced honors candidates and by consent of instructor. Each semester. May not be used toward M.S. degree in Biology.
- 14.499 (0401.499) SENIOR THESIS IN BIOLOGY (2) Writing of an honors thesis based on individual research done under the direction of a staff member. Prerequisites: open only to advanced honors candidates and by consent of instructor. Each semester. May not be used toward M.S. degree in Biology.
  - tation with the instructor. A maximum of 3 credits allowable for M.S. degree in Biology. Evening and summer programs.
- (0401.507) PHYSIOLOGICAL ANIMAL ECOLOGY (4) A study of the physiological responses of animals to varying ecological conditions. Prerequisites: 14.402, 14.465. Fall, even years.
- 14.509 (0401.509) AQUATIC BIOLOGY (4) A study of freshwater and brackish water plants and animals of the local area with a field emphasis. Several representative habitats are considered comparatively, using various methods of collecting and identifying species of the fauna and flora. Prerequisites: 14.331, 14.351, 14.353 or consent of instructor. Fall, odd years.

- 14.533 (0401.533) PLANT MORPHOGENESIS (4) The morphological growth and development of plants in response to natural and artificial stimuli at the cellular, tissue, and organ level. Prerequisite: 14.439. Evening and Summer programs.
- 14.534 (0401.534) PLANT DISTRIBUTION (3) A study of the present distribution of the earth's major vegetational formations as related to environmental factors. Special emphasis is given to the terrestrial blomes of North America. Prerequisites: 14.331, 14.432 recommended. Spring, odd years.
- (0401.535) ENVIRONMENTAL PLANT PHYSIOLOGY (3) Physiological interactions between plants and environments at the organism level. Exchanges of physical and chemical factors such as energy, gases, water, pesticides, air and water pollutants, fertilizers, lime, radioactive materials. Prerequisites: 14.436 or consent of instructor. Spring, even years.
- 14.553 (0401.553) BIOLOGY OF TERRESTRIAL AND FRESHWATER INVERTEBRATES (4) An advanced study of invertebrates including classification, physiology and various ecological parameters influencing distribution of local fauna in freshwater and terrestrial habitats. Parasites and terrestrial insects are excluded. Prerequisites: 14.353 or consent of instructor. Spring, odd years.
- 14.561 (0401.561) INSECT ECOLOGY (4) A study of insect communities and populations emphasizing conditions of the environment that favor abundance of insects in various

- habitats. Field work involves examination of various aquatic and terrestrial habitats. Prerequisites: 14.461, 14.353 recommended. Spring, even years.
- 14.581 (0401.581) RECENT ADVANCES IN BIOL-OGY (4) A study of current factual and technological advances in the five following areas: Botany, Zoology, Ecology, Genetics and Evolution, Cellular and Molecular Biology. Completion of this course with a grade of B or better fulfills the departmental advancement to candidacy examination requirement. Prerequisites: 9 graduate credits in biology. Fall, each year.
- 14.601 (0401.601) NON-THESIS GRADUATE RE-SEARCH (3) An individual research project is carried out under the guidance of a graduate faculty advisor. Credit granted only after research has been accepted by the student's research committee. Prerequisite: Successful completion of all requirements for the Advancement to Candidacy Examination in Biology and M.S. program. Evening and Summer.
- 14.697 (0401.697) GRADUATE SEMINAR (1) Student reports and discussion dealing with biological research. An outline of the seminar and a bibliography are required. A maximum of 1 credit allowable for M.S. degree in Biology. Evening and Summer programs.
- 14.699 (0401.699) THESIS (6) An original investigation to be pursued under the direction of one or more faculty members. Credit granted only after thesis has been accepted by the student's thesis committee. Evening and summer programs.

#### SCIENCE EDUCATION COURSES (SCIE)

The following courses are staffed by the Departments of Biological Sciences and Physics and are offered in cooperation with the Education Department. Descriptions of these courses are included under Education Department listings.

- EDUC 26.341 (333) EARLY CHILDHOOD EDU-CATION PROFESSIONAL BLOCK I-SCI-ENCE
- EDUC 27.398 (390) STUDENT TEACHING IN THE SECONDARY SCHOOL-BIOLOGY
- EDUC 27.398 (390) STUDENT TEACHING IN THE SECOND/.RY SCHOOL—SCIENCE
- SCIE 76.301 FIELD COURSE IN SECONDARY TEACHING METHODS

- SCIE 76.371 (335) TEACHING SCIENCE IN EARLY CHILDHOOD
- SCIE 76.375 TEACHING SCIENCE IN THE ELE-MENTARY SCHOOL
- SCIE 76.379 (383) TEACHING SCIENCE IN THE SECONDARY SCHOOL
- SCIE 76,488 (SUMMERS) AEROSPACE EDUCA-TION WORKSHOP
- SCIE 76.585 (509) SEMINAR IN ELEMENTARY SCHOOL SCIENCE
- BIOL 14.303 LIFE SCIENCE FOR THE ELE-MENTARY TEACHER

# **Business Administration**

Chairperson: HOLT Professor: CHANDLER

Assistant Professors: CAMPBELL, CASTALDI, GIBNEY, GOLDMAN, SEGANISH

(Business Law Coordinator) Visiting Assistant Professor: STRAUSS

instructors: BUCHOFF (Program Coordinator for Accounting), HAIGHT, HANNON,

MACCHIETTE, NEVILLE, PERRIER

Visiting Instructor: MICHEL (Business Internship Coordinator)

The Business Administration program seeks to develop personal and professional skills related to business and management. It provides training for careers in business or government as well as preparation for graduate study in business or management. The program operates in a Liberal Arts framework and emphasizes the oral and written communications skills needed for a career in corporations and other large organizations such as the Federal and State Government, school systems, and hospitals.

## Requirements for the Major

Students majoring in business administration are normally required to take 45 credit hours (except accounting which requires 51) in three categories: core courses; areas of concentration; and upper-division business electives.

#### Core Courses

The student must complete the following 30 hours of courses with a grade of C or better: BUAD 16.201 (0506-201) Accounting Principles I; BUAD 16.202 (0506-202) Accounting Principles II; BUAD 16.325 (0506-325) Business Law I; BUAD 16.331 (0506-331) Financial Management; BUAD 16.341 (0506-341) Marketing Management; ECON 24.101 Economic Principles & Problems (Microeconomics); ECON 24.102 Economic Principles & Problems (Macro-economics); One statistics course specified by the department, MATH 50.231 Basic Statistics or ECON 24.301 Fundamental Statistics for Economics I. MATH 50.331 and MATH 50.332 may be substituted; for business/psychology double majors, PSYC 70.111 may be substituted; one data processing course specified by the department, COSC 23.235 Fundamentals of Computing or COSC 23.212 Cobol Programming meet this requirement; one written communications course specified by the department. ENGL 30.333 Writing for Business and Industry or ENGL 30.331 Advanced Composition or MCOM 53.555 Newswriting or MCOM 53.356 Feature Writing meet this requirement.

#### Areas of Concentration

Each area of concentration is designed to provide depth and high levels of skills in specific functional areas. The areas of concentration within the business administration major are:

Accounting — (15 hours required) Designed for students selecting careers in corporation accounting or planning to take the exam to be a Certified Public Accountant. Courses in this area are: Intermediate Accounting I and II; Cost Accounting; Tax Accounting I and II; Advanced Accounting I and II and Auditing.

Finance — (9 hours required) Designed for students seeking careers in banking or corporate finance. Courses in this area are: Principles of Investments and Security Analysis; International Finance; Advanced Corporate Finance; Money and Banking; and Price Theory.

Marketing — (9 hours required) Designed for students planning a selling,

advertising, distribution or marketing career. Courses in this area are: Transportation Management; Physical Distribution Management; Advertising Management; Marketing Research; and International Marketing.

Personnel — (9 hours required) Designed for students selecting a personnel or management career. Courses in this area are: Personnel Management; Labor Economics; Industrial Relations; Grievances and Arbitration, and Public Administration.

International Business — (9 hours required) Designed for students interested in learning the nature of international business and management. Courses in this area are: Introduction to International Business; International Finance; International Marketing; and International Economics.

Additional electives recommended to business majors are: MASS COMMUNICATIONS (Communication Process, Introduction to Advertising, Business and Profesional Speech, Public Opinion and the Press, Publicity and Public Relations, Mass Media in Modern Society); ECONOMICS (Intermediate Price Theory, Government and Economic Life, Money and Banking, Macroeconomic Theory, Business Cycles and Forecasting); POLITICAL SCIENCE (Public Administration, State Government, Urban Government and Politics); MATHEMATICS (Math of Finance, Calculus); PSYCHOLOGY (Industrial Psychology, Group Dynamics, Applied Psychology); SOCIOLOGY (Organizations).

## Upper-division Business Electives

The student must complete 6 additional hours of business administration upperdivision courses with a grade of C or better.

#### **Transfer Credits**

Credit towards the business major will be given for approved courses taken at other schools. Students planning to transfer from junior or community colleges are encouraged to take six hours of accounting as part of their first two years of college. Six hours of economics may also be taken. Students are encouraged to take finance and marketing after transferring to Towson State College. Transfer students must complete, with a C or better, at least 21 hours of Business Administration credits at Towson State College in order to qualify for the business major.

Students currently enrolled at Towson State College may be given credit for courses taken at other accredited 4-year colleges. Approval must be gained in advance.

# American Institute of Banking Credit By Experience Program

For selected courses, Towson State College will accept a maximum of six courses taken in residency through the Baltimore Chapter of the American Institute of Banking. Each 3-credit course will be accepted with examination as two credits in business administration. The courses count as lower-division electives (Freshman and Sophomore Year). If a maximum of 6 courses is accepted, the student will receive 12 credits in business towards the 120 or 128 required for graduation. In addition to the 12 AIB credits, a student may transfer up to 64 credits from a Maryland Community College without loss of credit.

## Criteria to be Applied

The following criteria and evidence of attainment are required for the acceptance of courses:

Student must complete AIB course with a grade of "B" or better.

The class must have met in a formal classroom setting for a semester.

A transcript signed by the AIB Chapter President.

Certification by Baltimore Chapter.

The course required the student to pass a minimum of 2 examinations.

The course was completed during a 5year period prior to the date of submission of the transfer request.

The student must have been employed by a bank on a full-time basis during the period covered by the course.

The student must have been employed in banking full-time during a period of 18 consecutive months during the past 7 years.

Certification by Baltimore Chapter.

Certification of dates during which the course was offered by the Chapter.

Certification by Baltimore Chapter.

Certification by Baltimore Chapter.

## How to apply for credit

To apply for credit for AIB courses, the student takes the following actions: write a letter to the Chairperson, Department of Business Administration, Towson State College, Baltimore, Md. 21204. In the letter the student should: request credit for specific AIB courses; indicate that he or she has requested the AIB Chapter to certify criteria listed above (directly from Chapter to Towson); indicate that he or she has requested a certification of employment from the Personnel Department of Bank directly to Towson; enroll as a student at Towson State College.

## Courses which qualify

Once accepted, AIB courses are applied towards BUAD 16.299 (0506-299) Practicum in Banking. The following American Institute of Banking courses currently qualify for credit:

Credit Administration. Home Mortgage Lending. Installment Credit. Principles of Bank Operations. Savings and Time Deposit Banking.

Bank Letters and Reports. Bank Management. Bank Public Relations and Marketing. Analyzing Financial Statements. Trust Functions and Services.

#### BUSINESS ADMINISTRATION COURSES (BUAD)

COMMENCING WITH THE 1976-77 ACADEMIC YEAR, THE CURRENT ALPHABETICAL DESIGNATION "BUAD" WILL BE REPLACED BY A NUMERIC CODE OF 0506.

#### Lower Division — Undergraduate

16.101 (0506.101) INTRODUCTION TO BUSINESS MANAGEMENT (3) This course is concerned with the problems of organization dynamics and behavior of people, within and outside the business, with which management must deal in attaining the objectives of the enterprise.

16.201-202 (0506.201-202) ACCOUNTING PRINCI-PLES I, II (3, 3) Fundamentals of accounting as applied to proprietorships, partnerships, and corporations. The recording process; construction, interpretation, and managements' use of financial statements.

16.221 (0506.221) BASIC REAL ESTATE (3) Principles of Real Estate and Allied Fields. Maryland State Code of ethics, rights, transfer of property, financing transfer, and the real estate market. This course fulfills the Maryland Real Estate Commission's basic

course requirement for the Real Estate Salesperson license and will assist in successfully completing the E.T.S. Salesperson Licensing Exam. (Not for major credit.)

16.222 (0506.222) REAL ESTATE SALES AND SALES MANAGEMENT (3) Principles of Real Estate Sales, including discussions of positive self-image, setting short and long range goals, budgeting of time, prospecting and soliciting listings, handling objections, closing sales; theories of why people buy property; techniques of developing listings, gathering contacts and referrals, qualifying prospects, advertising property, and sales presentation. (Does not count for major credit.)

16.223 (0506.223) LIFE INSURANCE (3) Fundamental principles, contracts, cost to policy holders, premium holders, premium computa-

- tion, calculation, apportionment of surplus. Laws and regulations, estate planning and group insurance. (Not for major credit.)
- 16.224 (0506.224) REAL ESTATE APPRAISAL AND DEVELOPMENT (3) This course covers the nature and purpose of appraisals; basic principles of real property value; the appraisal process; developing building cost estimates; theory and procedure of coordinated land use and development both commercial and industrial; business-govern-

#### Upper Division — Undergraduate

- 16.301-302 (0506.301-302) INTERMEDIATE ACCOUNTING I, II (3, 3) Preparation and analysis of financial statements. Accounting theory. Valuation of working capital, noncurrent assets and liabilities, revenue and expenses. Prerequisite: 16.202.
- 16.303-304 (0506.303-304) COST ACCOUNTING I, II (3, 3) First semester will offer components of manufacturing cost under the job order and processing cost system. The second semester will cover preparation of budgets and budgetary controls, standard costs and their application in budgetaries control. Prerequisite: 16.202.
- 16.305-306 (0506.305-306) TAX ACCOUNTING I, II (3, 3) I—Federal income tax laws governing gross income, deductions, calculation of taxable income and income tax rates. Emphasis is placed on the effect of these laws on the income of individual tax payers. II—Federal income tax laws dealing with partnerships, corporations, special tax areas and State of Maryland income tax laws. Prerequisite: 16.202.
- 16.307 (0506.307) SPECIAL TOPICS IN ACCOUNTING (3) Examines problems encountered in accounting for estates, trusts, municipalities, correction of errors, cash flow, and bankruptcy. Prerequisites: 16.302.
- 16.311-312 (0506.311-312) ADVANCED ACCOUNT-ING I, II (3, 3) I—The theory and practice of accounting for partnerships, installment sales, consignments, branch offices, and special accounting situations. II—A continuation of theory and practice of accounting as it pertains to consolidations, estates and trusts, municipal institutional accounting. Prerequisite: 16.302.
- 16.313-314 (0506.313-314) AUDITING I, II (3, 3) I—Examination of generally accepted auditing standards, internal control, professional ethics, and an introduction to auditing procedures. II—A continuation of Auditing I concentrating on auditing procedures, techniques, and standards of reporting. Prerequisite: 16.302.
- 16.325 (0506.325) BUSINESS LAW I (3) The function of the law with particular attention to contracts, agency, sales, commercial paper, personal property, and real property.

- ment relationships; urban renewal; zoning regulations: the role of the builder in real estate development; and condominiums. (Does not count for major credit.)
- 16.299 (0506.299) PRACTICUM IN BANKING (2) Students receive credit for a combination of work experience and courses taken through the Baltimore Chapter of the American Institute of Banking. Up to 12 credits may be earned in this practicum.
- 16.326 (0506.326) BUSINESS LAW II (3) The law of partnerships, corporations, estates, bankruptcy, and of government relationships with business. Prerequisite: 16.325.
- 16.331 (0506.331) FINANCIAL MANAGEMENT (3)
  An analytical approach to the study of financial problems of business concerns. Instruments and institutions significant for financial management are studied. Prerequisites: 16.202, Junior/major standing.
- 16.332 (0506.332) ADVANCED CORPORATE FINANCE (3) This course covers selected topics in managerial finance including cost of capital, capital-structure management, techniques of financing, and tools of financial decision-making. Prerequisite: 16.331.
- 16.333 (0506.333) PRINCIPLES OF INVESTMENTS AND SECURITY ANALYSIS (3) The valuation of stocks and bonds: safety, income, and marketability. Analysis of financial statements. Portfolio management. Prerequisites: 16.202, Junior/major standing.
- 16.341 (0506.341) MARKETING MANAGEMENT (3) An analytical approach to the study of marketing problems of business firms. Attention is focused on the influence of the marketplace, the industry structure, and the role of government. Prerequisite: Junior/ major standing or consent of instructor.
- 16.343 (0506.343) PHYSICAL DISTRIBUTION MANAGEMENT (3) A study of the elements involved in physical distribution management. Topics include transportation, packaging, materials handling, warehouse location. A systems approach is employed emphasizing the trade-offs between the various functions. Prerequisite: 16.341.
- 16.345 (0506.345) ADVERTISING MANAGEMENT
  (3) Analysis of promotional strategies for different classifications of products and services. Planning, preparing and scheduling advertisements. Media selection and determination of effectiveness. Advertising research. Prerequisite: 16.341.
- 16.355 (0506.355) INTRODUCTION TO INTER-NATIONAL BUSINESS (3) International payments, importing and exporting, foreign investment, market entry, foreign taxation, international business law. Prerequisite: Junior/major standing or consent of instructor.

- 16.361 (0506.361) MANAGEMENT THEORY (3) The nature, development and future prospects of management and organization theory. Management functions and processes are viewed in terms of organization, directing, communication, goals and responsibilities. Prerequisites: 9 hours of upper level BUAD courses.
- 16.363 (0506.363) QUANTITATIVE METHODS FOR BUSINESS (3) A course examining the processes, tools, and techniques for quantitative analysis for management. Covers basic theory for solving deterministic and probablistic models with emphasis on applications to the business environment. Includes linear programming, optimization models, inventory, queueing, scheduling and game theory. Prerequisites: 50.115 and 50.231.
- 16.371 (0506.371) PRINCIPLES OF TRANSPORTA-TION (3) Study of the economic and political factors affecting transportation and transportation systems. Development problems and government regulation. Study of freight and passenger carrier modes. Prerequisite: Junior/major standing or consent of instruc-
- 16.381 (0506.381) PERSONNEL MANAGEMENT (3) Review of techniques and problems in obtaining and developing a competent work force. Recruiting, selecting, testing, and evaluating employees. Wage and salary administration. Prerequisites: Junior/major standing or consent of instructor.
- 16.435 (0506.435) INTERNATIONAL FINANCE (3) The operating framework of international finance including balance of payments, foreign exchange, foreign money markets and financial management of the multi-international corporation. Prerequisites: 16.331, 16.355.
- 16.441 (0506.441) MARKETING RESEARCH (3) The theory and application of marketing research as a tool facilitating the corporate decision making process from sales research, market analysis through motivational analysis, advertising policy and product and package design. Course projects will provide an opportunity to develop proficiency in research design, sampling theory, data collection, interview techniques and statistical analysis. Prerequisites: 16.341, 50.231.
- 16.445 (0506.445) INTERNATIONAL MARKETING (3) The environment of international market-

- ing including channels of distribution, advertising, and legal, economic and cultural factors. Problems and obstacles related to market surveys and development of policies. Regional studies. Prerequisites: 16.341, 16.355.
- 16.451 (0506.451) INDUSTRIAL RELATIONS (3) Studies in contract negotiation and collective bargaining. Labor disputes, internal problems in unions, management problems, and legal constraints. Prerequisites: 16.381, 24.381.
- 16.452 (0506.452) GRIEVANCES AND ARBITRA-TION (3) Case study analysis of the Grievance and Arbitration procedure or a means of conflict resolution in existing Industrial Relations systems. Discharge, discipline, working conditions, past practice, promotion, overtime, and other specific arbitrable issues will be discussed. Prerequisite: 16.381.
- 16.461 (0506.461) ADMINISTRATIVE ANALYSIS (3) Techniques of increasing management efficiency, including organization analysis, systems analysis, time and motion study, automatic data processing and feasibility studies. Prerequisites: 16.202, Junior/major standing or consent of instructor.
- 16.463 (0506.463) SEMINAR IN LEADERSHIP (3) A seminar course designed to challenge the student's ability to form soundly developed business decisions. The objective is to develop leadership styles and strategies by relating the appropriate marketing, financial, and production information available to management. Prerequisite: nine hours upper level BUAD courses.
- 16.491 (0506.491) DIRECTED READINGS (3)
  Readings in selected functional or conceptual areas of business or management. Prerequisite: Consent of instructor.
- 16.495 (0506.495) INDEPENDENT RESEARCH IN BUSINESS ADMINISTRATION (3) Directed research on specific problems in a functional area of business or management. Prerequisite: Consent of instructor.
- 16.497 (0506.497) BUSINESS PRACTICUM (3, 6, 9) Students are required to work in assigned projects in actual business environments. Priority will be given to seniors. Open to highly qualified juniors. May be re-elected for a maximum total of 9 credit hours. Prerequisites: Senior standing; open to highly qualified juniors.

# Upper Division — Graduate and Undergraduate

16.481 (0506.481) ADVANCED BUSINESS POLICY WORKSHOP (3) A course requiring practical application of principles of management in an organizational framework. Class will

integrate functional skills in the areas of finance, marketing, personnel, and management. Prerequisites: Senior standing or consent of instructor.

# Chemistry

Professor: KASK

Associate Professors: BLANKENSHIP, MILIO, SWEETING, TOPPING, WINGROVE (Chairman),

YARBROUGH

Assistant Professors: CARET, LARKIN, RAWN Assistant Instructors: DEMETRIADES, EMMEL

## Chemistry Major

This major is recommended for students who intend to do graduate work in chemistry, to teach in secondary schools, to work in industrial, government and hospital laboratories, technical libraries, etc. Students who plan chemically oriented careers such as fundamental and industrial research, medicine, dentistry, pharmacy, veterinary medicine, agriculture, and other allied fields, may also elect this major. Students electing this major should select an advisor from the faculty of the chemistry department to assist them in designing a program to meet their special needs (see chemistry department secretary). Students should see their advisors early in their time at Towson State College and upon occasion of any change in courses or schedule in their program.

In addition to the general requirements for a bachelor's degree the following chemistry and supporting courses are required for all chemistry majors: Chemistry 22.101-102 (or 22.103-104), 22.211, 22.331-332, 22.341, 22.342, 22.343, 22.344, 22.411, 22.422, 22.401; Physics 66.221-222 (or 66.211-212); Mathematics 50.273-274. Chemistry 22.241 is recommended for most students.

A tentative recommended time program for chemistry majors is: first semester, 22.101, 50.119, 30.102 or 30.104, GCR, GCR; second semester, 22.102, 50.273, 66.221, 30.xxx (GCR), GCR; third semester, 22.211, 22.331, 50.274, 66.222, 22.241; fourth semester, 22.332, 22.342, GCR, GCR, GCR; fifth semester, 22.341, 22.343, GCR, GCR, GCR, and one of 22.351, 22,453, 22,431, 50.373, 50.471, 23.235, 30.333; sixth semester, 22.344, 22.411, 22.422, GCR, GCR, and one of 22.452, 22.453, 23.235, 50.373, 50.435, 50.471, 66.301, 66.302, 66.305, 66.311; fourth year, 22.401, 22.491-(492), and other electives (some suggestions already listed) to make full loads and sufficient credit to graduate. In the above the italicized courses are required courses; the others are electives. GCR means General College Requirement; see the section on Academic regulations of the bulletin for more detail. There are many optional arrangements. Students should see their major advisors for information on options.

For those who intend to go to graduate school in chemistry at least two post-physical chemistry courses in chemistry and two semesters of German or Russian are strongly recommended. Additional physics and mathematics courses are also recommended, especially Computer Science 23.337 and/or 50.471.

Students in the secondary education program (planning to teach chemistry in accredited schools) have an additional certification requirement of Biology 14.101. These students should be registered with the Secondary Education department, should have an advisor in addition to their Chemistry Faculty Advisor on their education program, and should consult with him concerning current certification and program requirements.

# Chemistry Minor

Students whose major interest is in cell or molecular biology, physiology or physiological psychology, environmental studies, natural science or molecular physics will find that a good chemistry background will provide insights into their major field. The Chemistry minor provides such a broad background and is adaptable to student interests.

Requirements for the Chemistry minor are: General Chemistry 22.101-2 (8 credits); Analytical Chemistry 22.210 or 22.211; Organic and Biochemistry 22.331-2 or 22.330 and 22.351; at least one other upper division chemistry course (minimum of 12 upper division credits). For further information, please inquire at the Chemistry Department office.

## Natural Science Major

This major is designed to give a broader view of the sciences than is obtained in a traditional undergraduate major in a single science. This is done at the sacrifice of depth and students should, therefore, be aware that this major will not prepare them for graduate work in a single science.

Course requirements are Biology 14.101, 14.105, 14.109; Chemistry 22.101-102, and one of 22.210, 22.211, 22.330 or 22.331; Mathematics 50.115; Physical Sciences 64.121, 64.211; Physics 66.211-212 (or 66.221-222); Biology 14.291 or 14.491 or Physical Sciences 64.401; biological or physical sciences electives (including one field course) for eleven credit hours: a total of 54 or 55 hours in physical sciences, biological sciences and mathematics.

Prospective secondary school teachers of general science should elect this major. Students should plan their programs to meet the certification requirements of the area in which they plan to teach.

#### CHEMISTRY COURSES (CHEM)

COMMENCING WITH THE 1976-77 ACADEMIC YEAR, THE CURRENT ALPHABETICAL DESIGNATION "CHEM" WILL BE REPLACED BY A NUMERIC CODE OF 1905.

#### Lower Division—Undergraduate

- 22.100 (1905.100) CHEMISTRY FOR NON-SCIENTISTS (3) A course for the non-scientist help him or her understand and evaluate current and future technological and scientific developments, especially those related to chemistry. Chemical principles will be discussed in the light of such topics as: nuclear power, environmental pollution and body chemistry. The approach will be non-mathematical. Three hours of lecture-discussion.
- 22.101-102 (1905.101-102) GENERAL CHEMISTRY I, II (4, 4) Atomic and molecular structures and their relation to properties of matter; solutions; types of reaction, energetics, kinetics, equilibria, and the related study of some important metallic and non-metallic elements. Laboratory work involves individual quantitative experiments and semimicro qualitative analysis. Three lecture hours and one three-hour laboratory period. Prerequisite: High school algebra.
- 22.103-104 (1905.103-104) GENERAL CHEMISTRY FOR MAJORS I, II (4,4) For chemistry majors and other qualified students. Essentially the same as CHEM 22.101-102 but a more rigorous treatment of problems and a more extensive study of the elements. Three

#### Upper Division — Undergraduate Only

22.330 (1905.330) ESSENTIALS OF ORGANIC CHEMISTRY (5) A one semester course in organic chemistry for non-chemistry majors taught on a conceptional basis. Emphasis

- lecture hours and one three-hour laboratory period. Prerequisite: Entrance examination or a grade of at least C in college algebratrigonometry or the equivalent.
- 22.210 (1905.210) PRINCIPLES AND METHODS OF CHEMICAL ANALYSIS (4) A one semester course in chemical analysis for nonchemistry majors emphasizing the theory and application of common gravimetric, volumetric, chromatographic, spectrophotometric, and electrometric techniques. Prerequisite: 22.102, Two lecture, one recitation, and four laboratory hours.
- 22.211 (1905.211) QUANTITATIVE ANALYTICAL CHEMISTRY (4) Principles and methods of treatment of data pertaining to chemical analysis followed by a development of the theory and techniques associated with common gravimetric, volumetric, and spectrophotometric methods of analysis. Two lecture hours and two three-hour laboratory periods. Prerequisite: 22.102 or 22.104.
- 22.241 (1905.241) PREPARATION FOR PHYSICAL CHEMISTRY (1) Practice in the strategy of solving physical and chemical type problems in preparation for use in physical chemistry. One lecture hour. Prerequisite: MATH 50.274 (or concurrently).

will be on principles, mechanisms, and modern techniques. Laboratory will include synthesis and identification of organic compounds. Prerequisite: 22.102. Three lecture

- hours, one recitation and one three-hour laboratory.
- 22.331-332 (1905.331-332) ORGANIC CHEMISTRY I, II (5, 5) Structure, reactions, preparation and properties of the compounds of carbon, as well as mechanisms of organic reactions. Laboratory techniques, synthesis of typical organic compounds and modern methods of organic qualitative analysis. Three lecture hours and one four-hour laboratory period. Prerequisite: Chemistry 22.104 or 22.102.

#### 22.381 (1905.381) MODERN CONCEPTS OF CHEMISTRY (4) Principles of modern chemistry including some inorganic, organic, analytical, and physical chemistry in an integrated treatment. Primarily for secondary school science teachers. Three lecture hours and one three-hour laboratory period. May not be counted for credit by chemistry majors since the course content is covered elsewhere in their curriculum. Prerequisite: CHEM 22.102 or 22.104 and two other science courses.

#### Upper Division—Undergraduate and Graduate

- 22.341 (1905.341) PHYSICAL CHEMISTRY -THERMODYNAMICS (3) Thermodynamics, phase relations, solution properties, chemical equilibrium and electrochemistry. Three lecture hours. Prerequisites: CHEM 22.102, MATH 50.274, and PHYS 66.222 or 66.212; CHEM 22.241 is recommended.
- 22.342 (1905.342) PHYSICAL CHEMISTRY -STRUCTURE AND KINETICS (3) Introduction to quantum chemistry; atomic and molecular structure, atomic and molecular spectroscopy, introduction to statistical thermodynamics, kinetic theory, and chemical kinetics. Three lecture hours. Prerequisites: CHEM 22.102, MATH 50.274, and PHYS 66.222 or 66.212; CHEM 22.241 is recommended.
- 22.343 (1905.343) PHYSICAL CHEMISTRY LABO-RATORY I (1) Five short laboratory projects in physical chemistry. Prerequisites: CHEM 22.211 and CHEM 22.341 or 22.342.
- 22.344 (1905.344) PHYSICAL CHEMISTRY LABO-RATORY II (1) Five short laboratory projects in physical chemistry. Prerequisites: CHEM 22.211 and CHEM 22.341 or 22.342.
- 22.351 (1905.351) ESSENTIALS OF BIOCHEM-ISTRY (3) Introduction to the chemical structure and properties of the constituents of living matter, including amino acids, proteins, nucleic acids, enzymes, carbohydrates and lipids. Enzyme kinetics, equilibria and thermodynamics in biochemical transformations will be presented. Three lecture hours. Prerequisites: CHEM 22.332 or 22.330.
- 22.352 (1905.352) BIOCHEMISTRY LABORATORY (2) To provide a basic working knowledge of a wide variety of laboratory techniques currently in use in the field. One recitation and one three-hour laboratory. Prerequisite: CHEM 22.351 or 22.353 and 22.210 or 22.211.
- 22.361 (1905.361) CHEMICAL AND BACTERIO-LOGICAL STUDIES ON WATER POLLUTION (3) Deals mainly with water pollution: causes, effects, and cures. Considers details of water and waste treatment. Emphasizes technical details of analysis of water. Concerns standards of water purity and variables involved. Demonstration of analytical methods to be given. Case studies and applications are viable approaches to this topic. Prerequisites: 22.102 and 14.101.

- 22.391 (1905.391) SPECIAL PROBLEMS IN CHEMISTRY (1-3) A laboratory or library problem in any particular area of chemistry to be selected by the student in consultation with the instructor. Students are required to submit a written report. May be repeated for credit as CHEM 22.392, 22.393, etc. Prerequisite: Written consent of instructor. Offered each semester.
- 22.401 (1905.401) SEMINAR IN CHEMISTRY (1) The attendance at all seminars and presentation of two seminars to the Chemistry Department on topics selected by the chemistry faculty or selected by the student and approved by the faculty. One and one-half hour seminar period. Prerequisite: Chemistry 22.211, 22.332; Co-requisite: Chemistry 22.341 or 22.342.
- 22.411 (1905.411) INSTRUMENTAL METHODS OF ANALYSIS (4) Theory, instrumentation, and application of various electrochemical, chromatographic, spectroscopic and spectrophotometric techniques to chemical analysis. Two lecture hours and one six-hour laboratory period. Prerequisite: CHEM 22.211, and 22.341 or 22.342,
- 22.412 (1905.412) ADVANCED ANALYTICAL CHEMISTRY (3) A special topics course dealing with the theory and application of more recent and specialized techniques of chemical separation and analysis. Three lecture hours, Prerequisite: CHEM 22.411.
- 22.422 (1905.422) INORGANIC CHEMISTRY (4) Nuclear and extranuclear structure, molecular orbital and ligand field theories, aqueous and non-aqueous reactions, coordination chemistry, inorganic synthesis, modern instrumentation, etc. Three lecture hours and one three-hour laboratory period. Prerequisite: CHEM 22.342 or concurrently.
- 22.431 (1905.431) ADVANCED ORGANIC CHEM-ISTRY LABORATORY (2) Methods of organic synthesis. Emphasis on general types of organic reactions, relying, in part, on original literature sources. Includes considerable individual instruction in laboratory techniques and in the use of equipment and instruments. Two three-hour laboratory periods. Prerequisite: CHEM 22.332.
- 22.432 (1905.432) ADVANCED ORGANIC CHEM-ISTRY (3) Review of fundamentals. Ad-

vanced treatment of selected topics in organic chemistry. Typical subject matter areas: (1) reaction mechanisms; (2) structure elucidation; (3) stereochemistry; (4) linear free energy relationships; (5) molecular orbital calculations. Three lecture hours. Prerequisite: CHEM 22.332 and 22.342; the latter may be concurrent.

22.441 (1905.441) ADVANCED PHYSICAL CHEM-ISTRY (3) Two topics in the area of Physical Chemistry to be covered in depth. Topics will be selected by the instructor after consultation with the students. Examples of possible topics are: formal wave mechanics, bonding, solid state, liquid state, surface chemistry, colloids, high polymers, rheology, ionic conductivity, electrochemical cells, scattering phenomena, statistical thermodynamics. Three lecture hours. Prerequisites: CHEM 22.341 and 22.342.

22.452 (1905.452) ADVANCED BIOCHEMISTRY (3) Reactions and mechanisms involving the synthesis and metabolism of the constituents of living matter. A consideration of biological functions on the basis of fundamental principles of chemical thermodynamics and kinetics. Buffers, osmometry, chromatography and spectrophotometry are presented as applied to biochemical systems. Three lecture hours. Prerequisite: CHEM 22.351.

22.453 (1905.453) ADVANCED BIOCHEMISTRY LABORATORY (2) Basic laboratory techniques involving the synthesis, isolation, purification, identification, and further reactions of substances in biochemical systems. Two three-hour laboratory periods. Prerequisite: CHEM 22.351.

22.491 (1905.491) INTRODUCTION TO RESEARCH IN CHEMISTRY (1-3) An individual laboratory and/or library investigation in research interest of an instructor. May be repeated for credit as CHEM 22.492, 22.493, 22.494, etc. At the completion of a project the student is required to give a public seminar on the work done and the principles involved. The vote of the chemistry faculty present in the seminar will be considered by the research supervisor in assigning final grades. Prerequisite: Consent of instructor.

#### Minimester Courses

22.001 (1905.001) CHEMICAL LITERATURE (1) Instruction in the use of the library and of the literature of chemistry. Library problems related to information retrieval will be assigned. Prerequisites: Permission of instructor; junior, senior standing in Chemistry.

22.002 (1905.002) CHEMISTRY OF DANGEROUS DRUGS (2) A survey of the chemistry, methods of detection, and analysis of narcotics, depressants and stimulants. Historical background, forensic and socio-economic implications associated with drug abuse will also be reviewed. Laboratory experiments will utilize GLC, TLC, UV-Visible and Fluoro-

metric techniques. Prerequisites: Consent of instructor.

22.003 (1905.003) APPLIED INSTRUMENTAL TECHNIQUES: NUCLEAR MAGNETIC RES-ONANCE (NMR) SPECTROSCOPY (1) Deals with practical use and application of instrument. Theory will be discussed briefly, but emphasis will be on practical use of instrument in pure and applied chemical investigations. Lecture and practical demonstrations will be used, and students will participate in the actual operation of NMR instrument. Prerequisites: 22.102 and 22.330 or 22.332 or consent of instructor.



# Communication Arts and Sciences

Professor: WALLACE (Chairman)

Associate Professors: BOSLEY, LONEGAN, STONE

Assistant Professors: DWIN, GLADSTONE, MACKERRON, ROWAN, SHIPMAN,

SCHWARTZ, VIRDEN

Instructors: GREYERBIEHL, STANLEY, TAYLOR, VATZ

The Department of Communication Arts and Sciences is composed of three areas of concentration, i.e., Speech Communication, Mass Communication, and Speech Pathology and Audiology.

The Curricula in the Department are designed to provide the best possible learning and training in the communication arts and sciences. The programs of study are designed to provide, in cooperation with other departments, a broad liberal education as well as a special professional training with emphasis placed upon acquiring knowledge as well as skill. Students can select from five programs of study: (1) Speech and Drama major, Bachelor of Arts or Bachelor of Science; (2) Speech and Drama major, Secondary Education Program; (3) Public Address major; (4) Mass Communications major; or (5) Speech Pathology and Audiology major.

Students who wish to qualify for any of the five programs in communication arts and sciences must register with the area coordinator of their chosen major. Students who wish to major in speech pathology and audiology must also register with the Coordinator of the Speech Pathology and Audiology Program. Students majoring in speech and drama should register as soon as possible in their college careers, preferably early in their freshman year and certainly no later than the beginning of their sophomore year. Transfer students should register during their first semester at the College.

Transfer students are required to take twenty hours in residence in their major area.

No transfer credits will be accepted toward the major or minor in Programs (1), (2), (3) or (4) until satisfactory completion of a proficiency examination in specific course area. The student must make application for the credit transfer and examination through the area coordinator. A scheduled testing time will be arranged the beginning of each semester. Application for transfer credits and the exam is the responsibility of the student and application must be made one semester prior to examination.

Only those students maintaining a grade point of 2.75 in their major courses taken at Towson State College in Programs (1), (2), (3) or (4) will be recommended for a major in those programs of study.

Students pursuing a minor in Programs (1), (2), (3) or (4) must also maintain a grade point of 2.75 in order to be recommended for a minor at Towson State College.

# Speech and Drama Major, Arts and Sciences Program

Thirty-six semester hours are required as follows:

Required of all majors: 21 semester hours plus 15 electives

- 1. 84.106, Voice and Diction; 84.203, Advanced Public Speaking; 84.131, Fundamentals of Speech Communication; 84.221, Oral Interpretation of Literature; 84.310, Phonetics of American English; 86.231, Mime I; 86.211, Theatre Production.
- 2. Advanced courses selected from the following courses 9 semester hours.
  - a. 53.201, Introduction to Broadcasting; 53.202, Introduction to Film; 53.261, Basic TV Techniques; 53.267, Film Communication; 84.216, Group Discussion; 84.231, Argumentation & Debate; 84.249, Forensics I; 84.250 Forensics

II; 84.304, Persuasion; 84.320, Readers Theatre; 84.349, Forensics III; 84.350, Forensics IV; 84.395, Independent Study in Oral Interpretation; 84.403, Classical & Modern Rhetoric; 84.405, American Public Address; 84.423, Advanced Oral Interpretation; 84.432, Coaching & Management of Forensics; 84.411, Independent Study in Chamber Theatre; 84.493, Independent Study In Readers Theatre; 84.495, Independent Study in Public Address.

Six semester hours to complete the major program chosen from the following groups:

- a. Three semester hours chosen from the following: 30.309, American Drama; 30.321, Modern Drama; 30.312, 30.313, World Drama; 30.319, English Medieval & Renaissance Drama; 30.320, English Drama from Restoration to Shaw; 30.415, 30.416, Shakespeare.
- b. Three semester hours chosen from the following: 84.213, General Semantics; 84.402, Hearing and Speech Science; 84.421, Experimental Phonetics; 87.105, Speech & Language Development; 87.302, Speech Pathology; 87.321, Introduction to Audiology. The student who prepares to teach in the high school is also required to complete 84.379, Teaching Speech & Drama in the Secondary School.

In addition, the student is strongly urged to complete satisfactorily a minor program of advanced course work in an area closely allied to the field of speech and drama, but chosen from courses offered in a department other than Speech and Drama. The minor program should be chosen with the approval of the student's Speech Department adviser.

# Speech and Drama Major, Secondary Education Program

The course of study for the teaching major follows the program of the general major but requires, in addition, 84.379, Teaching Speech and Drama in the Secondary School, a course in speech education for professional preparation. The prospective speech and drama teacher in the high school should also complete the required courses in secondary education in order to be certified for teaching. Speech Education majors should consult with adviser to determine minor area of certification. Student must complete 24 hours of Speech before taking 84.379. Speech and Drama Secondary Education Majors must register with the departmental secretary one full semester prior to the semester in which they register for student teaching. Student teaching should be done the first semester of the senior year. It is also the student's responsibility to see that he/she is meeting the State Requirements under which certification is being sought.

# Speech and Drama Minor

Requirements are the satisfactory completion of 24 semester hours of Speech and Drama courses including: 84.106, Voice and Diction; 84.131, Fundamentals of Speech Communication; 84.203, Advanced Public Speaking; 84.221, Oral Interpretation of Literature; 84.310, Phonetics of American English; 86.231, Mime I; 86.211, Theatre Production.

# Public Address Major

This program is designed to allow the student to pursue, in depth, study in the area of rhetoric and public address; i.e., the theory and practice of speechmaking. This study includes the scientific nature of the speech process, theories of interpersonal communication, introduction to the speech arts of discussion, debate, oral interpretation of literature, persuasive speaking, and the history and criticism of public speaking. The program is designed for the student interested in college teaching, coaching, and research in speech communication. It also serves as excellent preparation for a career in business or government.

Requirements for a Public Address major: 36 semester hours are required as follows:

- 1. Required of all majors: (12 semester hours) 84.106, Voice and Diction; 84.131, Fundamentals of Speech Communication; 84.203, Advanced Public Speaking; another three hour course will be announced.
- 2. 18 semester hours of advanced courses chosen from three groups of courses. a. Six semester hours chosen from the following: 84.216, Discussion; 84.231, Argumentation and Debate; 84.249, 84.250, 84.349, 84.350, Forensics;

84.432, Coaching and Management Forensics.

- b. Six semester hours chosen from the following: 84.221, Oral Interpretation of Literature; 84.320, Readers Theatre; 53.261, Basic Television Techniques; 53.361, Advanced Television Techniques.
- c. Six semester hours chosen from the following: 84.304, Persuasion; 84.402, Hearing and Speech Science; 84.403, Classical and Modern Rhetoric; 84.405, American Public Address; 84.406, British Public Address; 84.495, Independent Study in Public Address; 53.385, Mass Media in Modern Society.
- 3. Six semester hours to complete the major program chosen from courses directed more specifically towards the student's vocational objectives with the advice and consent of the student's speech department's advisor.

# Public Address Minor

Requirements are the satisfactory completion of 24 semester hours of speech courses including: 84.106, Voice and Diction; 84.131, Fundamentals of Speech Communication; 84.203, Advanced Public Speaking; 53.315, Business and Professional Speech; 84.221, Oral Interpretation of Literature.

# Mass Communications Major

This program offers a broad understanding of the processes, functions and responsibilities of mass communications. Development of skills in fact finding, analysis and communication through the mass media is stressed. The program prepares the student for graduate work and offers excellent background for many careers such as law, public relations, business, communications media, sales and management. Flexibility is purposely built into the program so that the needs of students with special vocational objectives may be met.

Majors are advised to obtain a broad background in the fine arts, humanities, and social sciences.

# Requirements for a Mass Communications major:

- 1. Required of all majors (18 semester hours): 53.101, Introduction to Mass Communications (0 cr.); 53.151, Journalism in a Free Society; 53.201, Introduction to Broadcasting; 53.202, Introduction to Film; 53.211, Communication Process; 53.315, Business and Professional Speech; 53.353, Publicity and Public Relations.
- 2. Electives (18 hours) chosen from the following: 3 credits selected from the following production courses: 53.261, Basic Television Techniques; 53.265, Basic Radio Production; and 53.267, Film Communication.

3 credits selected from the following writing courses: 53.355, Newswriting; 53.367, Television Writing; 53.358, News Editing and Copyreading; 53.496, Independent Study in Journalism; 53.497, Independent Study in Public Relations. Independent Study courses are by consent only.

12 credits selected from the following courses of theory and cognation: 53.001, Washington Film Seminar; 53.002, Producing a Television Series; 53.003, Broadcast Production Engineering; 53.214, Introduction to Advertising; 53.261, Basic Television Techniques; 53.265, Basic Radio Production; 53.267, Film Communication; 53.351, Public Opinion and the Press; 53.352, History of Journalism; 53.355, Newswriting; 53.356, Feature Writing; 53.358, News Editing & Copyreading; 53.361, Advanced Television techniques; 53.363, History of Film to the Present; 53.364, Aesthetics of the Film; 53.367, Television Writing; 53.491, Independent

Study in Film; 53.493, Independent Study in Radio; 53.495, Independent Study in Television; 53.496, Independent Study in Journalism; 53.497, Independent Study in Public Relations; 84.216, Group Discussion; 84.221, Oral Interpretation of Literature; 84.231, Argumentation & Debate; and 84.304, Persuasion.

NOTE: Any courses listed under any category may be used as elective credit if not chosen for fulfillment of major/minor requirements.

# Mass Communications Minor

Requirements for a Mass Communications minor are the satisfactory completion of 24 semester hours chosen as follows.

Courses required for a minor (18 hours): 53.101, Introduction to Mass Communications (0 cr.); 53.151, Journalism in a Free Society; 53.201, Introduction to Broadcasting; 53.202, Introduction to Film; 53.211, Communication Process; 53.315, Business and Professional Speech; 53.353, Publicity and Public Relations.

Electives (6 hours): 3 credits selected from the following courses: 53.261, Basic Television Techniques; 53.265, Basic Radio Production; 53.267, Film Communication; 53.355, Newswriting; 53.367, Television Writing; 53.358, News Editing and Copyreading.

3 credits selected from the following: 53.001, Washington Film Seminar; 53.002, Producing a Television Series; 53.003, Broadcast Production Engineering; 53.214, Introduction to Advertising; 53.252, History of Journalism; 53.261, Basic Television Techniques; 53.267, Film Communication; 53.351, Public Opinion and the Press; 53.358, News Editing and Copyreading; 53.361, Advanced Television Techniques; 53.363, History of Film to the Present; 53.364, Aesthetics of the Film; 53.385, Mass Media in a Modern Society; 53.491, Independent Study in Film; 53.493, Independent Study in Radio; 53.495, Independent Study in Television; 53.496, Independent Study in Journalism; 53.497, Independent Study in Public Relations; 84.216, Group Discussion; 84.221, Oral Interpretation of Literature; 84.231, Argumentation and Debate; 84.304, Persuasion.

# Major in Speech Pathology and Audiology

Students who major in this area pursue a course of study which prepares them (a) to do clinical work in public schools, in colleges, in medical and paramedical institutions, (b) for graduate study, (c) for certification by the Maryland State Department of Education, (d) and partially meets certification requirements for A.S.H.A. Majors in this program participate in the College's American Speech and Hearing Association's Certified Speech and Hearing Clinic, in public schools, and in other agencies and institutions. This program is supplemented by courses from the Department of Psychology and the Department of Education.

It is recommended that students interested in declaring a major in this area should do so as soon as possible and preferably no later than the end of the first semester of the sophomore year.

Students must petition the Department for enrollment in 87.488, Clinical Practicum II by mid-term of the semester preceding the one during which they expect to complete 87.488.

# Curriculum in Speech Pathology and Audiology

The Department proposes the following curriculum for the undergraduate who wishes to major in speech pathology and audiology and meet certification requirements as a speech and hearing clinician in the public schools. The requirements for the major are:

1. Satisfactory completion with a grade-point average of 2.5 or better of 36 semester hours of speech pathology, audiology, related technical and scientific content courses, and clinical practice in speech.

General requirements are: 87.105, Speech and Language Development; 87.302, Speech Pathology 1; 87.304, Speech Pathology II; 87.306 Speech Pathology III; 87.321, Introduction to Audiology; 87.305, Stuttering; Etiology and

Therapy; 84.310, Phonetics of American English; 84.402, Hearing and Speech Science; 87.400, Anatomy and Physiology of the Auditory and Vocal Mechanism; 87.487, Clinical Practicum I; 87.488, Clinical Practicum II (student must petition Department for enrollment); (87.488, Clinical Practicum II is not required for graduation).

The additional six semester hour requirements for the major should be elected from the following speech courses: 84.106, Voice and Diction; 84.213, General Semantics; 87.305, Stuttering Etiology and Therapy; 87.341, Clinical Audiology; 87.407, Aural Habilitation/Rehabilitation; 87.489, Clinical Counseling in Audiology and Speech Pathology.

- 2. Satisfactory completion of 18 semester hours of selected courses in psychology and education. (Specific courses in these areas are to be determined by the Department in conjunction with the student.)
- 3. Satisfactory completion of 200 clock hours of supervised clinical practice in speech and hearing therapy.

# MASS COMMUNICATION COURSES (MCOM)

COMMENCING WITH THE 1976-77 ACADEMIC YEAR, THE CURRENT ALPHABETICAL DESIGNATION "MCOM" WILL BE REPLACED BY A NUMERIC CODE OF 0605.

# Lower Division — Undergraduate

- 53.101 (0605.101) INTRODUCTION TO MASS COMMUNICATION (0) A laboratory course designed to introduce the student to the mass communications major at Towson State College. The introduction will include the role of the mass media, careers, and a description of courses available. This information will be obtained through the Dial Access system. (F, W, S)
- 53.151 (0605.151) JOURNALISM IN A FREE SOCIETY (3) Examination of the role of journalism in the mass communication process and its significance in a free society. Prerequisite: English 30.102. (F, W)
- 53.201 (0605.201) INTRODUCTION TO BROAD-CASTING (3) An introduction to the concepts of the role of history, science, politics, and economics in the development and present status of broadcasting. (F, W)
- 53.202 (0605.202) INTRODUCTION TO FILM (3)
  An introduction to the concepts of the role of history, science, politics, and economics in the development and present status of motion picture communication. (F, W).
- 53.211 (0605.211 COMMUNICATION PROCESS
  (3) Introduction to the communication process with emphasis on the functions of language and the problems of responsibility in communication.

- 53.214 (0605.214) INTRODUCTION TO ADVERTIS-ING (3) Review of the contribution made by advertising to the United States economy, and of the principles and practices as applied to electronic and printed media. (F, W)
- 53.252 (0605.252) HISTORY OF JOURNALISM (3)
  Critical study of the development of the
  English language press; emphasis on the
  American press and its role in the political
  and economic progress of this country. (W)
- 53.261 (0605.261) BASIC TELEVISION TECHNIQUES (3) An introduction to the basic principles, procedures, and techniques of television production. Students will be required to participate on the college television production crew. (F,W,S)
- 53.265 (0605.265) BASIC RADIO PRODUCTION
  (3) A course structured to introduce the student to the equipment and performance techniques necessary to produce a variety of radio show formats. The student will be required to participate on the campus radio station. Prerequisites: 53.202, 84.131. (F, W)
- 53.267 (0605.267) FILM COMMUNICATION (3)
  An introduction to the techniques and theories of film production through the use of 8-mm cameras, editors and sound equipment. Prerequisites: 53.202 and consent of instructor. (S)

#### Upper Division — Undergraduate and Graduate

- 53.315 (0605.315 BUSINESS AND PROFES-SIONAL SPEECH (3) The student will participate in various types of speeches and study discussion, conference techniques, and parliamentary procedure. Prerequisites: Speech 84.131 or its equivalent. (F, W, S)
- 53.351 (0605.351) PUBLIC OPINION AND THE PRESS (3) Journalistic aspects of public opinion and propaganda; the impact of mass
- communications media on the formation of public opinion. Techniques of polling and testing public opinion.
- 53.353 (0605.353) PUBLICITY AND PUBLIC RELATIONS (3) Provides an awareness and understanding of public relations activities. Students learn publicity techniques and how to organize campaigns. (F, W, S)
- 53.355 (0605.355) NEWSWRITING (3) Introduc-

- tion to newswriting from the standpoint of style, structure and readability. Prerequisites: 53.151, and one English Composition course. (F, W)
- 53.356 (0605.356) FEATURE WRITING (3) Preparation of long and short articles, editorials and news features. Prerequisite: One English Composition course and 53.355. (F, W)
- 53.358 (0605.358) NEWS EDITING AND COPY-READING (3) Practice in editing, headline writing, page make-up and use of pictures and type in newspapers, and editing copy for use on radio and television. Prerequisite: 53.355 or 53.356. (F, W)
- 53.359 (0605.359) MAGAZINE PUBLISHING (3) Examination of the principal practices, problems, and trends in magazine publishing through tracing progress of a magazine from copy to bindery. Steps in periodical production stressing emphasis on layout factors. Intensive analysis of magazine markets and case studies of magazine publishing problems. Prerequisite: 53.151, 53.355, 53.356, 53.358.
- 53.361 (0605.361) ADVANCED TELEVISION TECH-NIQUES (3) Advanced techniques in television production and performance for commercial and educational television. Major emphasis on directing. Prerequisite: 53.261 or consent of instructor. (F, W)
- 53.363 (0605.363) HISTORY OF THE FILM TO THE PRESENT (3) Survey of the Motion Picture from its conception to the distribution of sound films. Prerequisite: 53.202. (F)
- 53.364 (0605.364) AESTHETICS OF THE FILM (3) Survey of film theory and aesthetics of silent, sound and avant-garde motion pictures. Prerequisite: 53.363 or consent of instructor. (S)
- (0605.367) TELEVISION WRITING (3) Training and practice in writing commercials, documentaries and plays for the specific medium of television -- commercial and educational. Prerequisites: Eng. 30.102, 30.204 and 53.261. (W)
- 53.385 (0605.385) MASS MEDIA IN MODERN SOCIETY (3) Seminar in mass media, concentrating on audience, content and effects of the media. Prerequisites: 53.151, 53.202. (F, W)
- 53.475 (0605.475) FILM WORKSHOP (3) Designed primarily to provide experienced or future teachers with background about film so that they may better help pupils to become informed about and to develop critical reactions to the films they view. Prerequisite: Consent of instructor. (First summer session)

- 53.485 (0605.485) NEWSPAPER WORKSHOP (3) Sponsored by the member newspapers of the Maryland-Delaware-D.C. Press Association, and Towson State College. Designed primarily to provide teachers with background about the mass media so that they may better help pupils to become informed and develop intelligent opinions on current affairs. Students will be expected to take one afternoon field trip. Class limit 100 (Graduate or Undergraduate credit). Prerequisite: Consent of instructor for undergraduates.
- 53.491 (0605.491) INDEPENDENT STUDY IN FILM (1-6) Independent work in film production and research. Production students may work independently, with campus production unit or with professional production company. Prerequisites: 53.202, 53.267 or Consent of Instructor. (F, W, S and mini)
- 53.493 (0605.493) INDEPENDENT STUDY IN RADIO (1-6) Independent study in selected areas of radio through directed readings, projects in conjunction with the operation of the student radio station or work with a fulltime professional in the community. Selected students may work as laboratory assistants in the 53.265 Basic Radio Production class. Prerequisites: 53.265 and/or participation as a staff member on a campus or community radio. (F, W, S and mini)
- 53.495 (0605.495) INDEPENDENT STUDY IN TEL-EVISION (1-6) Independent study in selected areas of television production and research through selected readings, projects, papers and seminars. Prerequsites: 53.361 or Consent of Instructor. (F, W, S & mini)
- 53.496 (0605.496) INDEPENDENT STUDY IN JOURNALISM (1-6) Independent study in the varied aspects of newspaper writing. Opportunity will be provided to work under the guidance of professional newspapermen connected with the Baltimore papers. Prerequisites: Open by invitation of the department to qualified students. (F, W, S, mini)
- 53.497 (0605.497) INDEPENDENT STUDY IN PUB-LIC RELATIONS (1-6) Independent study in selected areas of public relations through directed readings, projects, papers or seminars. When possible opportunity will be provided for the student to work outside the classroom, under the cooperative guidance of his instructor and a full-time professional public relations person in the field of the Student's choice. Prerequsites: Open by invitation of the department to qualified students (F, W, S and mini)

# GENERAL SPEECH COURSES (SPCH)

COMMENCING WITH THE 1976-77 ACADEMIC YEAR, THE CURRENT ALPHABETICAL DESIGNATION "SPCH" WILL BE REPLACED BY THE NUMERIC CODES OF 1506 (SPEECH) AND 1599 (PUBLIC ADDRESS).

# Lower Division — Undergraduate

84.106 (1506.106) VOICE AND DICTION (3) Analysis of articulatory and vocal usage as they relate to spoken language. Improve-

ment of skills in voice, articulation, and pronunciation. (F, W)

- 84.131 (1506.131) FUNDAMENTALS OF SPEECH COMMUNICATION (3) Course is designed to assist the student in developing skills needed in interpersonal communication . . . effective listening and speaking, expressing social consciousness, ethical responsibility and self identification. (F, W, S)
- 84.203 (1506.203) ADVANCED PUBLIC SPEAK-ING (3) Principles of speech composition and organization. Study of manuscript, extemporaneous and impromptu speaking. Principles and application of speech analysis and criticism. Prerequisite: 84.131, or consent of instructor. (F, W)
- 84.213 (1506.213) GENERAL SEMANTICS (3)
  The effects of language and symbols upon individual adjustment and maladjustment.
  Semantic applications in audiology, education, speech pathology, and other arts and sciences. Prerequisite: 84.131.
- 84.216 (1506.216) GROUP DISCUSSION (3). Theory and methods of group discussion; practice in forums, panels, and other forms of group communication. (F, W, S)

# Upper Division — Undergraduate Only

- 84.349-84.350 (1506.349-1506.350) FORENSICS III, IV (1, 1) Refer to 84.249, 84.250 for course description. Prerequisite: 84.249-250 and consent of instructor (F, W)
- 84.375 (1506.375) SPEECH IN THE ELEMEN-TARY SCHOOL (3) A study of speech needs of the elementary school child and current methods and materials used by the class-

# Upper Division — Undergraduate and Graduate

- 84.304 (1506.304) PERSUASION (3) Rhetorical and psychological principles of influencing individuals and groups; application of persuasive principles in speaking performance; analysis of the use of persuasion in formal and informal communication. Prerequisite: 84.203 or consent of instructor. (F), odd numbered years.
- 84.310 (1506.310) PHONETICS OF AMERICAN ENGLISH (3) Analysis of speech sounds of American English and the use of phonetic symbols to record them. Emphasizes ear training, phonetic transcription, and language recordings. (F, W)
- 84.320 (1506.320) READERS THEATRE (3) Oral interpretation of selections from dramatic literature and individual and group reading. Includes principles of selecting, cutting, and programming in literature. Prerequisite: 84.221 or consent of instructor. (W)
- 84.395 (1506.395) INDEPENDENT STUDY IN ORAL INTERPRETATION (1-6) Independent study in selected areas of oral interpretation through directed readings, projects, papears or seminars. Prerequisites: 84.221, and consent of instructor. (F, W) (S, by request.)
- 84.402 (1506.402) HEARING AND SPEECH SCI-

- 84.219 (1599.219) PARLIAMENTARY PROCEDURE (1) Brief analysis of history and philosophy of parliamentary law and study and practice of the procedure for conducting and participating in meetings. Fall — even numbered years.
- 84.221 (1506.221) ORAL INTERPRETATION OF LITERATURE (3) General principles of oral reading and the art of interpretation in poetry, drama, and the short story. Prerequisite: 84.131 or consent of instructor. (F, W)
- 84.231 (1599.231) ARGUMENTATION AND DE-BATE (3) Essentials of argumentation; research, analysis, evidence, reasoning, case construction and refutation. Applications in public speaking and in college debate. Prerequisites: 84.131 or consent of instructor. (F)
- 84.249-84.250 (1506.249-1506.250) FORENSICS I, II (1, 1) Practical work in debate, oratory, extemporaneous speaking, and other speech projects. Study of national debate questions, and opportunity to participate in forensic activities or a Speaker's Bureau. Prerequisite: Consent of Instructor. (F. W)

room teacher in meeting needs. (F, W)

84.379 (1506.379) TEACHING SPEECH AND DRA-MA IN THE SECONDARY SCHOOL (3) Problems, materials, methods and techniques in specific speech instruction areas; integration of speech and drama in co-curricular school activities. Open only to students in the student block. (Fall only)

- ENCE (3) Lectures, readings, and demonstrations designed to introduce the student to the various physical and psychological parameters of speech and hearing and how they are studied. Prerequisite: 84.310, 87.400.
- 84.403 (1599.403) CLASSICAL AND MODERN RHETORIC (3) Survey of rhetorical theory from Isocrates to contemporary communication theorists. Particular attention is given to Aristotle, Cicero and Quintillian. Designed to develop standards of rhetorical criticism. (W) odd numbered years.
- 84.405 (1599.405) AMERICAN PUBLIC ADDRESS (3) History and criticism of two centuries of public address in the United States, the great speakers, their historical environment, their beliefs and effects on American life. Prerequisite: 84.203 or 40.145 or consent of instructor. (F) — even numbered years.
- 84.406 (1599.406) BRITISH PUBLIC ADDRESS (3) Public address in Great Britain, the great speakers, their historical environment, their beliefs and effects on American life. Prerequisite: 84.203 or 40.121 or consent of instructor. (F) odd numbered years.
- 84.411 (1506.411) INDEPENDENT STUDY IN CHAMBER THEATRE (1-6) Independent

study in selected areas of Chamber Theatre through directed readings, projects, performances, papers or seminars. Prerequisites: 84.320.

- 84.421 (1506.421) EXPERIMENTAL PHONETICS
  (3) An advanced course in the study of Phonetic Science. Concerned with the application of experimental methods to study and research in voice and phonetics, especially spectrographic analysis. Includes critical review of research literature in Scientific Phonetics. Prerequisite: 84.310 or consent of instructor.
- 84.423 (1506.423) ADVANCED ORAL INTERPRETATION OF LITERATURE (3) Advanced theory and practice of oral interpretation with emphasis placed upon the relationship of the dramatic structure to the interpreter's performance. Prerequisites: 84.221 and consent of instructor. (W)
- 84,432 (1506.432) THE COACHING AND MAN-

AGEMENT OF FORENSICS (3) 2nd semester of even-numbered years only. Problems of organizing, financing, and directing the forensic program in schools and colleges. Coaching, schedules, and techniques for debate and individual speech events. Competing philosophies of forensics and secondary school and college-level forensic organization are studied. (W)—even numbered years.

- 84.493 (1506.493) INDEPENDENT STUDY IN READERS THEATRE (1-6) Independent study in selected areas of Readers Theatre through directed readings, projects, papers or seminars. Prerequisite: 84.320 and consent of instructor. (F, W) (S, upon request.)
- 84.495 (1599.495) INDEPENDENT STUDY IN PUB-LIC ADDRESS (1-6) Independent study in selected areas of public address through directed readings, projects, papers, or seminars. Prerequisite: consent of instructor. (F, W, S)

# SPEECH PATHOLOGY AND AUDIOLOGY COURSES (SPPA)

COMMENCING WITH THE 1976-77 ACADEMIC YEAR, THE CURRENT ALPHABETICAL DESIGNATION "SPPA" WILL BE REPLACED BY A NUMERIC CODE OF 1220.

# Lower Division — Undergraduate

87.105 (1220.105) SPEECH AND LANGUAGE DE-VELOPMENT (3) Analysis of normal speech and language development, including the phonetic, semantic, and syntactic elements. Physiology of speech and language learning. Observation will be required.

# Upper Division — Undergraduate and Graduate

- 87.302 (1220.302) SPEECH PATHOLOGY I (3)
  Academic information and clinical methods for the problems of articulation and delayed language. Observation will be required. Prerequisite: 87.105, 84.310.
- 87.304 (1220.304) SPEECH PATHOLOGY II (3)
  Academic information and clinical methods for the problems of cleft palate and voice disorders. Observation and participation will be required. Prerequisite: 87.105, 84.310.
- 87.305 (1220.305) STUTTERING ETIOLOGY AND THERAPY (3) Analysis of etiologies, symptoms and therapeutic management of stuttering. Prerequisite: 87.105.
- 87.306 (1220.306) SPEECH PATHOLOGY III (3)
  Academic information and clinical methods for the problems of aphasia, mental retardation and cerebral palsy. Observation and participation will be required. Prerequisite: 87.486.
- 87.321 (1220.321) INTRODUCTION TO AUDIOL-OGY (3) Anatomy, physiology and pathologies of the hearing mechanism. Symptoms and causes of hearing disorders. Pure tone air conduction testing and screening methods. Observation and practice will be required. Prerequisites: 87.105, 84.402.
- 87.341 (1220.341) CLINICAL AUDIOLOGY (3)
  This advanced undergraduate course will explore basic audiometry; audiogram interpretation; basic principles of audiologic habili-

- tation including school hearing conservation. Not open to those students who have completed 87.401, and not open for graduate credit. Prerequisite: 87.321.
- 87.400 (1220.400) ANATOMY AND PHYSIOLOGY OF THE AUDITORY AND VOCAL MECHANISM (3) Analysis of the anatomical structures involved in the communication processes of Speech, Language, and Hearing. Analysis of the functioning of these structures. Lectures and laboratory sessions will be required. Prerequisite: 87.105.
- 87.404 (1220.404) PROFESSIONAL PROGRAMS, PROBLEMS AND RELATIONSHIPS (3) Organization and administration of speech pathology and audiology programs in various professional settings; personal, professional and community relationships and responsibilities. Observation will be required. Prerequisite: 87.487 or consent of instructor.
- 87.407 (1220.407) AURAL HABILITATION/REHA-BILITATION (3) Theories, objectives and techniques for the teaching of speech reading, speech conservation and auditory training. Observation and practice will be required. Prerequisite: 87.321.
- 87.408 (1220.408) SPECIAL PROBLEMS SEMI-NAR — CLEFT PALATE (3) A multidisciplinary approach to all aspects of the patient with a cleft palate which would include lectures on etiology, embryology, speech patterns, otological and audiological con-

- siderations, dental and plastic reconstruction, speech therapy and follow-up. Prerequisite: 87.306.
- 87.409 (1220.409) SPEECH AND LANGUAGE FOR THE DEAF CHILD (3) Principles and techniques for developing speech and language in the deaf child using whole-word and analytical methods; consideration of multiple handicaps; demonstration and observation will be required. Prerequisite: 87.105, 87.321, 87.407 or consent of instructor.
- 87.410 (1220.410) SPECIAL PROBLEMS PRACTI-CUM — CLEFT PALATE (3) Clinical practice in all aspects of the patient with a cleft palate. Prerequisite: 87.306.
- 87.411 (1220.411) SEMINAR / WORKSHOP IN SPEECH PATHOLOGY AND AUDIOLOGY SPEECH AND LANGUAGE DEVELOPMENT FOR THE SPEECH AND LANGUAGE DEPRIVED (6) Diagnostic, therapeutic and methods for the management of children who are deprived in the areas of speech and language. Prerequisite: 87.306, or professional experience and/or consent of instructor.
- 87.414 (1220.414) SPECIAL PROBLEMS SEMINAR
  (3) Concentrated investigation of particular problems in the field of speech pathology and audiology. The problems will vary each semester the course is offered. (Individuals having professional experience may receive credit through a proficiency examination.) Prerequisite: Professional experience or at the invitation of the department.
- 87.421 (1220.421) SEMINAR / WORKSHOP HEARING IMPAIRED (6) Psychology and science of hearing and anatomy of the hearing mechanism will be reviewed. Investigation of communication, educational, vocational, psychological and social problems of the hearing impaired as these relate to personal adjustment in today's society. The study of the principles and techniques of teaching the hearing impaired.
- 87.441 (1220.441) INDUSTRIAL AND ENVIRON-MENTAL AUDIOLOGY (3) This course is designed to provide extensive information in the area of noise and its effect on hearing. Industrial, community, and environmental aspects will be covered including hearing conservation programs. Prerequisite: Consent of Instructor.
- 87.451 (1220.451) AUDIOLOGICAL MANAGE-MENT OF THE EXCEPTIONAL CHILD (3) Principles and techniques for identifying and evaluating hearing impaired children; consideration of multiple handicaps; demonstration and practice. Prerequisites: 87.341 or consent of instructor.
- 87.461 (1220.461) HEARING AID SELECTION PROCEDURES AND SPEECH AUDIOMETRY (3) Nature and types of amplifying systems used with the hearing impaired. Electroacoustic characteristics, principles and methods of selection and usage. Use of

- speech signals in evaluating the auditory sytem. Prerequisite: Consent of instructor.
- 87.481 (1220.481) DIALECTS OF ETHNIC GROUPS IN AMERICAN SOCIETY (3) Academic information that will help the student acquire an understanding of the cultural and social aspects of certain ethnic groups in American society and train the student in assessment of divergent language patterns and effective management of a language program based on the individual needs of the population served. Prerequisite: 87.302.
- 87.485 (1220.485) VOICE AND ARTICULATION SEMINAR (3) Investigation of nature and treatment of organic and functional voice and articulation disorders in children and adults, including vocal strain, nodules, carcinoma, management of the laryngectomized, and dysarthria. Prerequisite: 87.486.
- 87.486 (1220.486) CLINICAL OBSERVATIONS
  AND TECHNIQUES (3) Observation and application of techniques essential to the management of hearing, language, and speech disorders. Prerequisites: 87.302, 87.304.
- 87.487 (1220.487) CLINICAL PRACTICUM I (1-3) Clinical observation of and practice in therapeutic procedures with various types of speech, language and/or hearing disorders in the Towson State College Speech and Hearing Clinic. Students may also be assigned a practicum in the Lida Lee Tall School and/or various centers that offer speech, language or hearing therapy, such as hospitals or private agencies. (Repeatable once. Must be taken second time if 87.488 is not elected.) Prerequisites: 87.486 and consent of Department.
- 87.488 (1220.488) CLINICAL PRACTICUM II (6-9) Students assigned to an approved therapy program for observation and practicum experience. The student will earn a minimum of 150 of the 300 clinical clock hours required for certification. Prerequisites: 87.487 and consent of Department. (Only 3 credits will count toward satisfying the requirements for a major in Speech Pathology and Audiology.)
- 87.489 (1220.489) CLINICAL COUNSELING IN AUDIOLOGY AND SPEECH PATHOLOGY (3) Systems of directive and nondirective counseling utilized by speech and hearing clinicians for the management of organic and nonorganic disorders. Techniques of interviewing, case history recording, and the conditioning of semantic reactions through interpersonal interaction. Prerequisite: 87.486.
- 87.496 (1220.496) INDEPENDENT STUDY IN SPEECH PATHOLOGY AND AUDIOLOGY (1-4) Independent study in selected areas of Speech Pathology and Audiology through projects, papers and seminars. A portion of the course may involve assisting in laboratory experiences in connection with Speech

Pathology and Audiology course(s). Prerequisites: Invitation of Department only and upper division standing.

87.497 (1220.497) DIRECTED READINGS IN SPEECH PATHOLOGY AND AUDIOLOGY (1-4) Directed readings in selected areas of

#### Graduate Division

- 87.501 (1220.501) LANGUAGE DISORDERS OF CHILDREN (3) Investigation of mental retardation, emotional disturbance and hearing loss in children in terms of speech and language disorders. Prerequisite: 87.105 and 87.302.
- 87.505 (1220.505) NEUROPATHOLOGIES OF SPEECH (3) Etiology, nature and management of cerebral palsy and minimal brain damage in children, and dysphasia in adults. Prerequisite: 87.306 and 87.487.
- 87.507 (1220.507) DIAGNOSTIC METHODS IN SPEECH PATHOLOGY (3) Standardized and non-standardized techniques for testing the speech, language and general intellectual functioning of children and adults. Practicum experience in speech evaluations and report writing. Prerequisite: 87.485 and 87.505.
- 87.511 (1220.511) APPLICATION OF LINGUISTICS TO SPEECH PATHOLOGY (3) Investigation of traditional and contemporary research in the area of psycholinguistics and generative grammar. Application of this to diagnosis and management of those with language disorders. Prerequisites: Graduate Standing.
- 87.513 (1220.513) INTRODUCTION TO SEARCH IN SPEECH PATHOLOGY AND AU-DIOLOGY (1) Discussion of research methods, techniques and needs in speech pathology and audiology. Reading and understanding professional journal articles. Prerequisite: Consent of instructor.
- 87.521 (1220.521) DIAGNOSIS OF DISORDERS OF THE AUDITORY SYSTEM (3) This advanced course is designed to provide graduate students in Audiology and Speech Pathology with the history, rationale and procedures for audiologically delineating disorders of the auditory system. Prerequisite: Consent of instructor.
- 87.531 (1220.531) PSYCHOACOUSTIC INSTRU-MENTATION AND CALIBRATION (3) This advanced course is intended to provide graduate students in Audiology and Speech Pathology with an overview of the devices which form a core of equipment for auditory investigation and some of the principles and

Speech Pathology and Audiology in order to provide for the individual a comprehensive coverage of a special area within the broader range of communication disorders or to meet special needs of students. Prerequisites: Upper division standing and by invitation of the department.

- problems which accompany their use. Prerequisite: Consent of instructor.
- 87.541 (1220.541) AUDIOLOGY SEMINAR --- PSY-CHOACOUSTICS (3) This advanced course is intended to provide graduate students in Audiology with an opportunity to pursue indepth students in psychoacoustics. Prereguisite: Consent of instructor.
- 87.542 (1220.542) AUDIOLOGY SEMINAR BIO-ACOUSTICS (3) This advanced course is intended to provide graduate students with an opportunity to pursue in-depth studies in bioacoustics. Prerequisite: Consent of instructor.
- 87.543 (1220.543) AUDIOLOGY SEMINAR -NEUROPHYSIOLOGY OF HEARING (3) This advanced course is intended to provide graduate students with an opportunity to pursue in-depth studies in neurophysiology of audition. Prerequisite: Consent of instructor.
- 87.544 (1220.544) AUDIOLOGY SEMINAR --- CUR-RENT TOPICS IN AUDITION (3) This advanced course is intended to provide graduate students with an opportunity to pursue in-depth studies of current interest in audition. Prerequisite: Consent of instructor.
- 87.645 (1220.645) ADVANCED CLINICAL PRAC-TICE (2) Experience in the College Clinic as well as externship in public schools, hospital clinics and rehabilitation settings with the speech defective. Introduction to the supervision of undergraduate trainees. Prerequisite: 87.487 and/or professional experience.
- 87.695 (1220.695) GRADUATE RESEARCH PAPER IN SPEECH PATHOLOGY AND AUDIOLOGY (3) Preparation of extensive paper dealing with a current area of research in the field or with the results of a clinical experiment. Prerequisite: Consent of department.
- 87.696 (1220.696) INDEPENDENT STUDY IN SPEECH PATHOLOGY AND AUDIOLOGY (3) Preparation of extensive paper dealing with professional clinical experiences. Discussions of techniques, innovations, methods employed and recommendations for improvements. Prerequisite: Professional experience.

# **Economics and Political Science**

Professors: BELGRAD, EHRLICH, GROSSMAN (Chairman), MERANI, SANBORN

Associate Professors: EKPO, KUMAR, PAUL, SHIN Assistant Professors: DENT, GERMAN, WEINTRAUB

Instructor: DORN

The program of courses in political science and economics aims to promote understanding of the nature of political relationships and the workings of economic systems. The majors in political science and economics are designed to provide preparation for advanced study and to provide the foundation for careers in public administration, law, public relations, business, and research.

# Economics Major

Thirty credit hours are required for the major in economics, including 24.101, 24.102, 24.301, 24.309, 24.323, and 24.335.

# **Economics Minor**

Twenty-four hours are required for the minor in economics, including 24.101, 24.102, and 24.323.

Economics majors are urged to take the following electives: 30.331, Advanced Composition or 30.334, Advanced Informal Writing, and 53.315, Business and Professional Speech.

Six hours' credit toward the economics major or minor may be taken in the following: 16.332, Advanced Corporate Finance; 16.371, Principles of Transportation; 16.481, Industrial Relations; 34.231, Economic Geography; 40.417, 416, Economic History of Europe; 40.365, The Agricultural Era of America; 40.366, The Industrial Era of America; 23.235, Fundamentals of Computing; and 50.377, Mathematical Models.

Economics and mathematics. Economics majors who do not plan graduate study in economics must take 50.111, Algebra for Applications, or 50.115, or 50.116, or 50.119. Also recommended is 50.211, Calculus for Applications.

Those who do plan graduate study in economics are advised to take 50.273-4. Calculus I and II (and the appropriate prerequisites) as well as other advanced mathematics courses.

Students who major in both economics and mathematics may count up to twelve hours of specified mathematics courses towards the 30 hours required for the economics major. Further details are in this *Bulletin* under Mathematics.

# Political Science Major

Thirty credit hours are required for the major in political science, including six hours from among 68.101, 68.103, 68.107, or 68.137, and three hours from among 68.455, 68.456, 68.481, 68.487, or 68.491. Twenty-one hours must be taken at the upper division.

Twenty-four hours are required for the minor in political science, including six hours from among 68.101, 68.103, 68.107, or 68.137, and fifteen hours of upper division courses.

Normally a student who transfers to Towson State College with senior standing will be expected to complete fifteen hours of upper division political science courses here to satisfy the requirements for a major; those who transfer below senior standing normally will be expected to complete twenty-one hours of upper division political courses.

# ECONOMICS COURSES (ECON)

COMMENCING WITH THE 1976-77 ACADEMIC YEAR, THE CURRENT ALPHABETICAL DESIGNATION "ECON" WILL BE REPLACED BY A NUMERIC CODE OF 2204.

# Lower Division —Undergraduate

- 24.101 (2204.101) ECONOMIC PRINCIPLES AND PROBLEMS I (3) How private enterprise determines what is produced, prices, wages, profits. Supply and demand. Competition and monopoly. Labor unions, income distribution. Farm policy. The role of the government in our economy.
- 24.102 (2204.102) ECONOMIC PRINCIPLES AND PROBLEMS II (3) Inflation and unemployment - causes and remedies. Money and banking. Government spending and taxation. International trade. Prerequisite: 24.101.
- 24.201 (2204.201) ECONOMICS OF HEALTH (3)

# Upper Division — Undergraduate Only

- 24.301 (2204.301) FUNDAMENTAL STATISTICS FOR ECONOMICS I (3) Analysis and presentation of business and economic data; frequency distribution; measures of central tendency and variability; sampling and estimation of parameters; testing of hypotheses; simple regression analysis; measuring changes in price. Prerequisites: Mathematics 50.115 or equivalent. (Not open to freshmen)
- 24.302 (2204.302) FUNDAMENTAL STATISTICS FOR ECONOMICS II (3) Bayesian decision theory; probability models and decision making; analysis of variance; measuring and forecasting economic change with time series; forecasting and decisions by partial and multiple regression models; stochastic functions; statistical quality control. Prerequisites: 24.301 or Mathematics 50.231 or equivalent. (not open to freshmen)
- 24.309 (2204.309) INTERMEDIATE PRICE THE-ORY (3) Determination of prices, output, wages, resource allocation. Theory of the firm. Theory of competition, monopolistic competition, oligopoly, and monopoly. Prerequisite: 24.102.
- 24.311 (2204.311) GOVERNMENT AND ECONOM-IC LIFE (3) The rationale of government control and regulation of private enterprise. Maintenance of competition, antitrust policy. Public utility regulation. Prerequisite: 24.102.
- 24.315 (2204.315) ECONOMIC DEVELOPMENT (3) Theory of economic growth. Problems and programs relating to underdeveloped countries. Prerequisite: 24.102.
- 24.323 (2204.323) MONEY AND BANKING (3) Organization and function of the money, credit and banking system of the United States; banking institutions, Federal Reserve System; the relation of money and credit to prices; foreign exchange. Prerequisite: 24.102.
- 24.327 (2204.327) INTERNATIONAL ECONOMICS (3) International trade theory; balance of payments, problems, and adjustment mech-

- Study of the current structure of the delivery of health services and methods of financing health expenditures. Current issues in the economics of health. This course does not fulfill social science requirement in economics. Prerequisite: 24.101 or consent of instructor.
- 24.211 (2204.211) ECONOMICS OF POVERTY AND DISCRIMINATION (3) Study of the causes of poverty. How poverty and discrimination are interrelated. An analysis of existing and proposed programs to alleviate poverty and discrimination. Prerequisite: 24,101 and 24,102.
  - anism; foreign exchange; foreign trade policy; theory of tariffs and other trade restrictions; international monetary system and organization; trade and economic growth. Prerequisite: 24.102.
- 24.331 (2204.331) COMPARATIVE ECONOMIC SYSTEMS (3) Contemporary economic systems with emphasis on methods of social control. Capitalism, socialism, communism. Economic planning. Prerequisite: 24.102.
- 24.335 (2204.335) MACROECONOMIC THEORY (3) The overall level of output, prices, employment, interest rates, Keynesian economics. Prerequisite: 24.102.
- 24.337 (2204.337) PUBLIC FINANCE (3) Principles of taxation, government expenditure and public debt; relationship of fiscal policy to income and growth. Prerequisite: 24.102.
- 24.351 (2204.351) URBAN ECONOMICS (3) Economic bases for the existence of metropolitan areas. The economy of the metropolitan area; its growth, income distribution, economic stability. Transportation and land use patterns. Social and other problems of metropolitan areas. Application of elementary price theory to the analysis and solution of urban issues and problems. Prerequisite: 24.102.
- 24.381 (2204.381) LABOR ECONOMICS AND LA-BOR RELATIONS (3) The determination of wages. Labor unions: history, structure, activities, effects. Government labor policy. Prerequisite: 24.102.
- 24.401 (2204.401) HISTORY OF ECONOMIC THOUGHT (3) Development of economic theory; eighteenth and nineteenth century classical schools. Modern economic literature on price, investment, and employment. Prerequisite: 24.102.
- 24.407 (2204.407) BUSINESS CYCLES AND FORECASTING (3) Business cycle theory; measuring economic activities; policy proposals for controlling economic fluctuations. Prerequisite: 24.323 or 24.335.

24.451 (2204.451) INTRODUCTION TO MATHE-MATICAL ECONOMICS (3) Intended primarily for students planning graduate education in Economics. A study of the fundamental mathematical methods widely used in Economics: calculus and algebra. Emphasis is on optimization theory; economic examples are used throughout. Prerequisite: 24,309, 24,335, or permission of instructor and 50,211 or 50,274.

# Upper Division—Undergraduate and Graduate

- 24.490 (2204.490) INDEPENDENT STUDY (1-3) Individual and supervised study in selected areas of economics. Admission by permission of instructor.
- 24.495 (2204.495) PROSEMINAR ON ECONOMIC ISSUES (3) Research and writing of papers on an economic issue selected by the in-
- structor. Prerequisites: 24.309, 24.323, and 24.335.
- 24.493 (2204.493) WORKSHOP ON ECONOMIC EDUCATION (3) Designed to help teachers and school administrators gain a better understanding of the economic workings of the society in which we live. Prerequisite: Consent of the instructor.

# POLITICAL SCIENCE (POSC)

COMMENCING WITH THE 1976-77 ACADEMIC YEAR, THE CURRENT ALPHABETICAL DESIGNATION "POSC" WILL BE REPLACED BY A NUMERIC CODE OF 2207.

Each 100 level course—101, 103, 107, 137—is at the introductory level. Each may be taken without prerequisites. Each fulfills the general education requirement.

# Lower Division —Undergraduate

- 68.101 (2207.101) INTRODUCTION TO POLITICAL SCIENCE (3) The origins of modern governments. The nature of constitutions and constitutionalism. A definition and interpretation of politics. Prerequisite: Sophomore standing.
- 68.103 (2207.103) AMERICAN NATIONAL GOV-ERNMENT (3) Structure and functions of the government of the United States and the problems involved in the extension of the scope of democratic government in our contemporary life.
- 68.107 (2207.107) INTRODUCTION TO INTER-NATIONAL RELATIONS (3) An introductory examination of principles of legal, political,

and social relations among nations.

- 68.137 (2207.137) INTRODUCTION TO COMPAR-ATIVE POLITICS (3) The study of politics is introduced through an examination of different political systems. The activities of parties, movements, and pressure groups are examined in the context of different social, political, and economic frameworks.
- 68.207 (2207.207) STATE GOVERNMENT (3)
  Historical background, state constitutions,
  and the legislative, executive and judicial
  branches of government. Problems of state
  administration and federal-state relations.
  Prerequisite: 68.103, or consent of the instructor.

# Upper Division — Undergraduate and Graduate

Students may be admitted to upper division courses without the listed prerequisites after obtaining the consent of the instructor.

- 68.303 (2207.303) THEORY OF INTERNATIONAL POLITICS (3) The theories of mutual relations of states. Elements of national power; international politics as a struggle for power. Restraints upon the struggle for power. Prerequisite: 68.107 or History 40.242.
- 68.305 (2207.305) URBAN GOVERNMENT AND POLITICS (3) The political history of American cities from the eighteenth century through the recent reform movement. City charters, home rule, types of executives, political machines. The metropolitan area. Prerequisite: 68.103.
- 68.307 (2207.307) CONTEMPORARY INTERNA-TIONAL POLITICS (3) An examination of the conduct of international relations by the Western, the Communist, and the non-

- aligned blocs in the Post-World War period. Prerequisite: 68.303.
- 68.337 (2207.337) COMPARATIVE GOVERNMENT OF FOREIGN POWERS: THE WESTERN WORLD (3) An examination of the problems of modernization and stable constitutional rule in England, France, Italy, and Germany. Prerequisite: 68.101 or 68.137 or consent.
- 68.338 (2207.338) COMPARATIVE GOVERNMENT OF FOREIGN POWERS: RUSSIA AND THE EAST (3) Constitutional and legal processes of Russia, Japan, China and other Eastern powers. Prerequisite: 68.101 or 68.137 or consent of instructor.
- 68.339 (2207.339) COMPARATIVE POLITICAL SYSTEMS (3) The course will attempt to bring together the analytical concepts and methodological techniques that may be applied to the study of political systems in a comparative sense. Prerequisite: 68.103 or 68.137 or consent of instructor.

- 68.341 (2207.341) AFRICAN GOVERNMENT AND POLITICS (3) An examination of the rise of African nationalism and the emergence of new states in Africa. Attention is directed to the influence of colonial rule and traditional political institutions on the development of party politics, patterns of government, and Pan-African ideas. A trend towards the military rule, political problems of the independent Africa, and the efforts of each country to build a strong and viable political system are emphasized. Prerequisite: Any Political Science course or consent of instructor.
- 68.351 (2207.351) THE GOVERNMENT AND POLITICS OF LATIN AMERICA (3) An examination of the process of conflict resolution emphasizing the internal dynamics of the political process in Latin America. Emphasis is placed on the contemporary problems of civilian and military rule in Mexico, Brazil, Chile, Colombia, and Argentina. Prerequisite: 68.101 or 68.137 or consent of instructor.
- 68.355 (2207.355) THE LATIN AMERICAN POLICY OF THE UNITED STATES (3) Diplomatic, political, and economic relations between the United States and Latin America from Independence to the present. Policies such as the Monroe Doctrine, Pan-Americanism, the Good Neighbor Policy, and the Alliance for Progress are discussed in terms of security, economic interests, and the problems of promoting stable democracies in Latin America. Prerequisite: 68.101 or 68.137.
- 68.359 (2207.359) POLITICAL AND SOCIAL AS-PECTS OF REVOLUTION (3) Nature and function of violence and revolution in modern social systems. Prerequisite: 68.101 or 68.137 or consent of instructor.
- 68.361 (2207.361) POLITICAL BEHAVIOR (3)

  The purpose of this course is to introduce the student to the substantive theory and methodology of behavioral analysis. Topics include voting behavior, elite behavior, and an analysis of types of political conflict. Prerequisite: 68.101 or consent of instructor.
- 68.375 (2207.375) PUBLIC ADMINISTRATION (3)
  Administration as a central element of contemporary society, with special reference to the problems of government organization, control, personnel, finance, and public relations. Prerequisite: 68.103.
- 68.381 (2207.381) THE PRESIDENCY (3) A discussion of the origin of the office, the selection of the president and policy-making in the executive branch. Prerequisite: 68.103.
- 68.383 (2207.383) CONGRESS (3) An investigation of the relations of Congress with the other branches of government and with the political parties and interest groups. The course also examines the relationships between a member of Congress and his constituency as well as the internal dynamics of Congress. Prerequisite: 68.103.
- 68.401 (2207.401) INTRODUCTION TO LAW (3)
  The legal processes in the United States.
  This course is designed primarily for the

- liberal arts student. Prerequisite: sophomore standing and one course of introductory political science.
- 68.417 (2207.417) AMERICAN POLITICAL PARTIES (3) Origin and development of the American two-party system. The activities of pressure groups and organizations, and their effects upon the party system. Prerequisite: 68.103 or consent of instructor.
- 68.418 (2207.418) CONSTITUTIONAL LAW (3) A study of the constitution of the United States based on leading judicial decisions interpreting the constitution and statutes from 1789 to the present. Prerequisite: 68.103.
- 68.427 (2207.427) POLITICAL THEORY I (3) Political thought in the West from the Greeks to the end of the sixteenth century. Prerequisite: 68.101 or consent of instructor.
- 68.428 (2207.428) POLITICAL THEORY II (3) Political philosophers and their writings since the sixteenth century. Attention given to the conflict of ideologies in the twentieth century. Prerequisite: 68.101 or consent of instructor.
- 68.430 (2207.430) POLITICAL IDEAS OF SO-CIALISM AND COMMUNISM (3) This course deals with selected topics in the political theory of socialism and communism including socialism and the ancient regimes, socialism and political organization, Russian, Leninist and Stalinist theory, and socialist ideas in the post cold war period. Prerequisite: 68.428.
- 68.432 (2207.432) UNITED STATES-SOVIET RE-LATIONS (3) Diplomatic, cultural, and economic relations between the U.S.S.R. and the U.S. Emphasis on the period since 1933 with a careful study of the effects of the Second World War upon the balance of power. Prerequisite: Any 100 level course.
- 68.435 (2207.435) AFRICA IN WORLD POLITICS
  (3) The role of African nations in the nuclear age, and their efforts to achieve unity.

  Prerequisites: 68.341 or consent of instructor.
- 68.439 (2207.439) UNITED STATES FOREIGN POLICY IN SOUTHEAST ASIA (3) American foreign policy in Southeast Asia in the Post World War II period. Prerequisites: 68.303, and History 40.110, 146, or consent of instructor.
- 68.441 (2207.441) CONTEMPORARY UNITED STATES-WESTERN EUROPEAN RELATIONS (3) Emphasis will be on NATO, the European Economic Community, and the Anglo-American efforts to create an Atlantic partnership between Europe and the United States. Prerequisite: 68.103 or 68.137, or consent of instructor.
- 68.445 (2207.445) UNITED STATES FOREIGN POLICY IN SOUTH ASIA (3) A discussion of American foreign policy in South Asia mainly since 1945. Emphasis will be on India and Pakistan. Prerequisite: 68.303, History 40.109, 146, or consent of instructor.

- 68.450 (2207.450) GROUP POLITICS AND PUB-LIC OPINION (3) The role of pressure groups and public opinion in the American political system. Prerequisite: Junior standing and nine hours of political science, or consent of instructor.
- 68.455-456 (2207.455-456) INTERNATIONAL LAW AND ORGANIZATION I, II (3, 3) An examination of the theories and the development of international law up to the present. The character of the modern state system, the role of international organizations, and international law and resort to force. Prerequisites: 68.303, and History 40.242, or consent of instructor.
- 68.461 (2207.461) RESEARCH METHODS IN PO-LITICAL BEHAVIOR (3) The major emphasis in this course will be on the use of quantitative techniques in political research. Topics include survey research, the use of computers, and statistical analysis. Prerequisite: Any course at 100 level.
- 68.465 (2207.465) EDITORIAL WORK TOWSON STATE JOURNAL OF INTERNATIONAL AF-FAIRS (1) (1 per semester — 4 semester limit.) Members of the Editorial Board of The Towson State College Journal of International Affairs prepare the issues of that Journal under the supervision of the faculty advisors. Admission by consent of the instructor only.
- 68.470-479 (2207.470-479) SPECIAL TOPICS IN POLITICAL SCIENCE (3) An examination of current topics in political science. The content of the course will depend upon mutual faculty and student interest. Prerequisite:

- 68.101 and consent of instructor. (Not for Graduate Credit.)
- 68.482 (2207.482) SEMINAR IN POLITICAL SCI-ENCE (3) Various methods and techniques of research in political science, culminating in the preparation of a seminar paper. Prerequisite: eighteen semester hours in political science, or consent of instructor.
- 68.485 (2207.485) DEMOCRATIC THEORY SEMI-NAR (3) This course attempts to trace the sources of Democratic Theory to their 16th century origins and to analyze the variants to that theory which have been proposed since that time. Prerequisite: 68.428.
- 68.490 (2207.490) INDEPENDENT STUDY (3) Individual and supervised study in selected areas of political science. Admission by consent of instructor.
- 68.491 (2207.491) SEMINAR IN CONTEMPORARY UNITED STATES FOREIGN POLICY (3) An examination of the nature, basis, and instruments of American foreign policy in the contemporary age. The formulation, control, and execution of American foreign policy will also be noted. Prerequisites: 68.303, and History 40.146, or consent of instructor.
- 68.493 (2207.493) PRACTICUM IN POLITICS (3-9) This course is designed to familiarize students with practical working of political and governmental institutions. The flexibility in time and credit arrangements will allow a variety of political practice (or internships) in which students can combine observation of "politics in action" with discussions and generalization of the observed. Prerequisite: Junior standing, major in political science, and consent of the department.



# Education

- Professors: BARBOUR (Director of Laboratory Experiences), BINKO (Associate Director of Laboratory Experiences), BRANDWINE, BROYLES, BURRIER (Graduate Coordinator, Secondary Education), CORNTHWAITE, DUMAS, ELY-FLICKINGER, FITZGERALD, (Graduate Coordinator, Elementary Education), GUTKOSKA (Director of Reading), B. HAUSERMAN (Associate Dean, Director of Teacher Education), HEAGNEY, JESSUP, (Chairman, Department of Secondary Education), KILEY, KIMSEY, KJER (Graduate Coordinator, Early Childhood Education), LEWIS, LINDNER, VAN NORMAN (Director of Professional Programs), WESLEY, WILLIAMSON, WILLIS.
- Associate Professors: BELLOWS, BRAMBLETT, BOND (Chairman, Department of Early Childhood Education), BRODBELT, COHEN, COLIMORE, COX, EPSTEIN, GARNER, GEHRING (Coordinator of Educational Technology), HANSON, N. HAUSERMAN (Director of Research, Lida Lee Tall Learning Resources Center), HELFRICH, LINDSAY, LOOMIS, B. TAYLOR (Director, Lida Lee Tall Learning Resources Center), TRITCH, VELDER, VLANGAS, WALL, WILLIAMS (Chairman, Department of Elementary Education).
- Assistant Professors: BEHLING, BEINER, BOYD, CARPENTER, COHN, FINK, FRIEMAN, HOLMES, KARFGIN, MARTIN, MAY, NICHOLAS, OLSON, O'NEILL, POUR, RAY, SHORES, SMITH, SUHORSKY, M. TAYLOR, TROUPE, WATERS, WILNER (Librarian, Lida Lee Tall Learning Resources Center).

Instructors: BALDWIN, LAWLOR, LOUDERMILK, LYONS, McGILL, NASS, PATRICK, POLLACK, SIMON, SLACUM.

Visiting Lecturers: BLAKE, HAWKINS, LAMB, LEONARD, LUDLOW

#### LIDA LEE TALL LEARNING RESOURCES CENTER

The Lida Lee Tall Center is primarily a research facility at Towson State College focusing on major problems of education. With a strong focus on applied or field research, the Lida Lee Tall faculty and staff provide direction for educators in the continuing challenge of educational inquiry.

There are many opportunities for educational research at the Lida Lee Tall Center. With the guidance of a full time research director, the following are available for perspective researchers:

- 1. A nursery school program for two year old children, with parents having full organizational and administrative responsibility;
- 2. A nursery school program for four and five year old groups of children, closely allied with the Early Childhood Department of Towson State College;
- 3. A full-time day care center for three and four year old children, working closely with the Early Childhood Department of Towson State College;
- 4. An educational media teaching and learning center emphasizing the development of learning stations which are used independently by children;
- 5. Closed circuit programming (in the planning stage) focusing on instructional strategies;
- 6. A Parent Lounge focusing on the development of Parent-Teacher partnerships;
- 7. A fully equipped and staffed reading center serving Lida Lee Tall as well as the community at large;
- 8. Special facilities and programs in art, music, physical education, drama, theatre arts, language and speech;
- 9. Current standardized test data on file for every child in the Lida Lee Tall Learning Resources Center;
- 10. An innovative "family" or "vertical" grouping of children in one class, similar to the British infant school organization, with an age span of four and one half years to almost nine years of age;
- 11. A liaison with the computer center for the Maryland State Colleges which is located on this campus.

In order to share the results of the research studies carried out at the Center, our publication called "Probe," (Probing Resources of Better Education) is distributed nationwide.

The Lida Lee Tall Center welcomes inquiries from students, faculty, or anyone interested in exploring the parameters of the educational milieu.

# Educational Technology Center

A service-oriented Educational Technology Center offers faculty and students an opportunity to use the latest multi-media equipment in the design and production of self-instructional curriculum materials. The center seeks to meet the increasing need for alternative methods for carrying out instructional requirements. Consultation and advisement on all aspects of media is available to faculty and students; inquiries are invited and welcome.

# THE TEACHER EDUCATION PROGRAM

The Teacher Education program is designed to help the student mature in the varied understandings and competencies needed by the beginning teacher. Building upon the foundation of a sound general education, the student is guided toward an understanding of the child, the school, and the educative process. Teacher Education students may include in their professional program such experiences as the following: observation and participation in open space schools, as well as self-contained classrooms; utilization of micro-teaching and videotaping; and familiarization with social agencies in the school community. Increasingly, efforts are being made to individualize aspects of the student's professional program. All aspects of the programs have as their major objective the development of teachers who are broadly prepared individuals, who work well with children and youth, and who are ready and able to take intelligent action on current educational issues.

# Entering the Program

Students who plan to enter one of the education programs should file an application with the Education Department Office no later than the second semester of the sophomore year. (Those who transfer to Towson in their junior or senior year should file an application in their first semester at Towson.) Students must update their application forms regularly. To be eligible, students must be in good standing, have a college cumulative average of 2.00 plus and satisfy the requirements of the Screening-Advisement committee.

# Entering Student Teaching

All Teacher Education students must apply for student teaching on a form provided by the Director of Laboratory Experiences during the semester preceding the student teaching experience. (Secondary majors must also meet the academic requirements of the department involved.)

Each Teacher Education student who has reached the appropriate level of competency is placed in one of eight to ten cooperating school systems. Opportunities are available in rural or urban schools, "self-contained" or "open-space" classrooms, with individual teachers or with teams. Students may be placed in schools where methods courses are taught by a college supervisor, or individual placements are made for students who have taken methods courses on campus. Every attempt is made to secure the available placement that best meets the needs of the individual.

Differentiated student teaching may be taken by students who secure special permission from the Director of Laboratory Experiences.

# Numbering of Courses

The numerical prefixes indicate teacher education programs as follows: 25 Early Childhood Education, 26 Elementary Education, 27 Secondary Education as well as Dual Certification programs and Adult Education courses, 28 Special Certification programs. Prefix 29 designates courses which may apply to a number of programs.

Following the prefix: courses numbered 0 to 99 are new "experimental" courses: courses numbered 100 to 299 are termed "lower division"; and courses numbered 300 to 499 are termed "upper division" and normally have prerequisites. Some upper division courses and all courses numbered 500-699 are taken by graduate students.

For detailed information about graduate and evening programs, consult the specialized catalogs for those studies.

# EARLY CHILDHOOD EDUCATION PROGRAM

# Undergraduate Program

The early childhood education major is designed for students who have an interest in working with young children from birth through age eight. It is built on the premise that special capabilities and understandings are necessary to teach successfully in the preschool and primary grades. There is a demand for specialization by men and women in early childhood education.

The major in early childhood education leads to State Certification to teach nursery school, kindergarten, and primary grades. It also prepares students for positions in other programs for young children such as day care centers, parent and child centers, private and other non-public preschools and primary programs.

To meet both the College and Maryland State Certification requirements in general education (academic work) the student must complete a total of 80 hours in the arts and sciences. The required professional education courses in early childhood education total 35 or 36 hours. The remaining hours are elected by the student to obtain the total needed for graduation. For specific details of the early childhood education program see the guide included in this section on page 84.

Deviations from the program pattern for early childhood education majors are permitted only with the consent of the Chairman of Early Childhood Education. In addition to the major in early childhood education, a student, by using his elective hours carefully, may develop a major or a minor in a subject matter area.

It is recommended that the student seek an adviser at the earliest possible

Alternate Major in Early Childhood Education—The Evening College As a service to teachers who wish to pursue work toward a degree in early childhood education while they are on their teaching assignments and to other workers in various programs for young children, the Evening College offers an alternate program during evening and summers for the preparation of nursery school, kindergarten, day care center, and primary teachers which will enable them to major in early childhood education. See Evening College Bulletin for further information.

COMMENCING WITH THE 1976-77 ACADEMIC YEAR, THE CURRENT ALPHABETICAL DESIGNATION "EDEC" (EARLY CHILDHOOD) WILL BE REPLACED BY A NUMERIC CODE OF 0823.

#### Undergraduate

- 25.101 (0823.101) THE YOUNG CHILD AS A LEARNER (3) Introduction to the developing child and educational programs available for young children. Focuses primarily on the child himself.
- 25.102 (0823.102) THE CURRICULUM FOR YOUNG CHILDREN (3) Curriculum content and methods of teaching in programs for young children. Prerequisite: Child Psychology, Child Growth and Development, 25.101, or approval of Department of Education.

25.121 (0823.121) LABORATORY EXPERIENCES IN PROGRAMS FOR YOUNG CHILDREN (3) Practical application of educational theory through observation of and participation with young children in classroom situations. Concurrent with EDUC 25.102, summers only. Prerequisite: 25.101 or a course in Child Psychology, Child Growth and Development, or approval of Department of Education.

25.301 (0823.301) MATERIALS AND EXPERI-ENCES FOR THE YOUNG CHILD (3) Stimulating the intellectual, physical, social, and emotional development of young children through the use of varied instructional materials and activities. Prerequisite: Six hours of Early Childhood Education or approval of Department of Education.

50.321 (0823.321) TEACHING MATHEMATICS IN EARLY CHILDHOOD EDUCATION (2) (Course description will be found under the Mathematics Department listings.)

#### TOWSON STATE COLLEGE -- EARLY CHILDHOOD EDUCATION

Major in ECE, including TSC, Departmental and State Certification Requirements Leading to Certification to Teach and Work with Children Ages Three through Eight Years.

#### COLLEGE AND DEPARTMENTAL COURSE REQUIREMENTS

ART 12.105 Art in the Culture Elective	Credit 3 3	PSYCHOLOGY 70.101 Gen. Psychology 70.211 Child Psychology	3
ENGLISH 30.102 Freshman Composition Elective	3 6	HISTORY Elective	6
MUSIC		GEOGRAPHY 34.101 or 102 Elements of Geog.	3
54.101 Intro. to Music Lit. Elective	3 2	SOCIOLOGY 80.101 Intro. to Sociology	3
SPEECH 87.105 Speech & Lang. Dev.	3	Elective HEALTH	3
SCIENCE 14.101 Fund, of Biology	4	38.101 Current Health Prob.	3
64.101 Physical Science I 14.303 Life Science OR	4	PHYSICAL EDUCATION Elective	2
64.303 Earth-Space Science	3	TOTTAL GENERAL EDUCATION	66
MATHEMATICS 50.204 Fund. Concepts of Arith. 50.205 Gen. College Math.	3 3		
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Note: To meet certification requirements, students must choose 14 additional hours in academic subjects (Art & Sciences) for a total of 80 semester hours of academic work.

#### TOTAL NUMBER HOURS REQUIRED IN ACADEMIC SUBJECTS

AT LEAST 80

#### ACADEMIC ELECTIVES

Select other courses in Sociology, Psychology, Music, Art, Speech and Drama, Health, Foreign Language, Political Science, Economics, Philosophy, Geography, Government, Science, English, History.

#### PROFESSIONAL TEACHER EDUCATION COURSES-MAJOR IN EARLY CHILDHOOD EDUCATION

28.101	Careers in Education	2	25.343 Prof.Block III	2		
70.201	Educational Psychology	3	25.351-352 Student Teaching	10		
25.341	Prof. Block I	5	Two terms of 8 wks. each on two different age or grade levels (NS-KDG/Primary)			
24.342	Prof. Block II	4				
50.321	Prof. Block II — Teaching		29.401 Foundations of Education	3		
	Math. in ECE	2	Approved elective for ECE	1		
25.361	Prof. Block II — Teaching Reading in ECE	3				

TOTAL NUMBER PROFESSIONAL REQUIREMENTS FOR MAJOR IN EARLY CHILDHOOD EDUCATION
AT LEAST 35

APPROVED ELECTIVE COURSES FOR EARLY CHILDHOOD EDUCATION MAJORS: Educ. 29.417, Child. Lit. (3); Educ. 25.421, Prob. in ECE (3); Sp. 84.375, Sp. in Elem. School (3); THAR 86.307, Theater Arts for Children (3); Art 12.371, Art & the Child (2); Music 54.307, Tchg. Mus. in the Elem. School (2); Educ. 25.301, Mat. & Exp. for Young Child. (3); Educ. 25.355 Differentiated Stud. Tchg. in ECE (1-8); Educ. 25.411, Teachers & Parents: Partners in ECE (3), Educ. 25.413 Infants and Children Under Three (3); Educ. 25.415 Day Care Cnt. (3); Educ. 25.417 Learning Disabilities in Young Children (3); Educ. 25.410 Moorey and Evilodical ECE (2). (3); Educ. 25.419 Measurement and Evaluation in ECE (3).

- 25.341 (0823.341) PROFESSIONAL BLOCK I THE RELATED ARTS AND SCIENCES OF THE ARTS (5) Interdepartmental instruction by specialists in art, music, physical education and science with emphasis on the personal development of the becoming teacher and coordinated by a faculty member from Early Childhood Education program. Classroom participation. Prerequisite: Open only to Early Childhood Education Majors. Educational Psychology and Child Psychology or approval of Department of Education.
- 25.342 (0823.342) PROFESSIONAL BLOCK II CURRICULUM ANALYSIS AND METHODS OF INSTRUCTION (4) Emphasis on objectives, materials, and methods of teaching the language arts, and social studies in programs for young children. Participation one day weekly in an assigned classroom for young children. Prerequisite: Open only to Early Childhood Education Majors. 25.341 or its equivalent.
- 25.343 (0823.343) PROFESSIONAL BLOCK III CURRICULUM CONCEPTS IN EARLY CHILDHOOD (2) Parallels student teaching and is concerned with classroom problems encountered in student teaching. Prerequisites: 25.341 and 25.342 or the equivalent. Open only to Early Childhood Education Majors.
- 25.351, 352 (0823.351, 352) STUDENT TEACHING IN EARLY CHILDHOOD (10) Assignment in nursery school, kindergarten, and primary grades or other types of programs for young children under expert guidance. Two terms of approximately 8 weeks on two different age levels, four consecutive days weekly. Concurrent with 25.343.
- 25.355 (0823.355) DIFFERENTIATED STUDENT TEACHING IN EARLY CHILDHOOD (1-8) Student teaching experiences in addition to those in required student teaching courses (25.351, 25.352), according to needs and interests of the student. Experiences may be in public schools, or in centers for young children such as Day Care Centers, Parent-Child or Infant Centers, hospitals, or other special programs in early childhood education. Prerequisite: Approval of student's adviser, Chairman of Early Childhood Education, and Director of Laboratory Experiences.
- 25.361 (0823.361) TEACHING READING IN EAR-LY CHILDHOOD EDUCATION (3) Teaching reading in early childhood education with special emphasis on early learning related

- to the reading process and the teaching of beginning reading. Critical examination of content, procedures, materials in programs for nursery school through third grade. Prerequisite: Major in Early Childhood Education.
- 25.403 (0823.403) CURRICULUM IN PRIMARY EDUCATION (3) The child, curriculum content, methods and materials of teaching, and program organization in the primary school years. Evenings and Summers only, Prerequisite: 6 semester hours of Early Childhood Education. (G)
- 25.411 (0823.411) PARENTS AND TEACHERS: PARTNERS IN EARLY CHILDHOOD EDUCA-TION (3) The development of a rationale for improved parent-teacher relationships in early childhood education programs. The role of paraprofessionals, specialists, and volunteers. Observation, participation, home and school visits by teachers and parents functioning as a team. Prerequisites: Six hours of Early Childhood Education. (G)
- 25.413 (0823.413) INFANTS AND CHILDREN UN-DER THREE (3) Nature of the infant and the very young child. Types of programs providing care for infants and children under three. Focus on developmental needs. Organization, curriculum, and methods of working with parents and children. Observations. Resource persons from allied agencies. Prerequisites: 6 hours Psychology; 6 hours Early Childhood Education; or approval of Chairperson, Early Childhood Education. (G)
- 25.415 (0823.415) THE DAY CARE CENTER (3) An interdisciplinary course designed to prepare day care personnel. Resource persons from related agencies will participate. Topics include purposes of day care, problems of organization, administration and supervision, records, programs, community interaction, and parent relations. Field trips and observation of day care centers. Prerequisites: 6 hours of Early Childhood Education or approval of Department of Education. (G)
- 25.417 (0823.417) LEARNING DISABILITIES IN YOUNG CHILDREN (3) Survey of the nature of learning disabilities in the young child; theoretical positions; current research; neurological aspects involved; major categories; evaluative and remediation procedures are presented. Seminar-discussion and programmed units. Prerequisites: 6 hours of psychology and 6 hours of Early Childhood Education. (G)

- 25.419 (0823.419) MEASUREMENT AND EVALUATION IN EARLY CHILDHOOD EDUCATION (3) Backgrounds and principles of assessment in early childhood education. Statistical concepts. Types of instruments and methods for evaluating growth and achievement of young children. Prerequisite: 6 hours of psychology and 6 hours of Early Childhood Education. (G)
- 25.421 (0823.421) PROBLEMS IN EARLY CHILD-HOOD EDUCATION (3) Research findings used as a basis for program planning in nursery school, kindergarten and primary grades; current trends and issues are considered. Prerequisite: student teaching and/or teaching experience in preschool or primary grades; junior standing; approval of Department of Education. (G)
- 25.423 (0823.423) LABORATORY EXPERIENCES IN EARLY CHILDHOOD EDUCATION (3) Classroom experiences with children in preschool and primary grades in a variety of teaching-learning situations. Analysis of observations in light of current research. Concurrent with 25.421. Summers only. Prerequisites: junior standing and approval of Department of Education. (G)
- 25.425 (0823.425) THE YOUNG BLACK CHILD IN A MULTICULTURAL SOCIETY (3) Exploration of the influences of caste, class and culture on the development of young children, with implications for Early Childhood Education. Focus on the young black child. Prerequisites: 6 hours psychology and/or sociol-

- ogy, 6 hours of ECE or approval of Department of ECE. (G)
- 25.494 (0823.494) TRAVEL AND STUDY: EARLY CHILDHOOD EDUCATION (1-6) A field study, including cultural tours in selected foreign countries, of current Early Childhood Education programs, facilities, and trends. Lectures, observations, and personal interactions. Required participation in planned educational activities and a follow-up paper. Prerequisites: Junior, senior, graduate standing, or consent of the department chairman. Consent of graduate program coordinator required for graduate degree credit.
- 25.495 (0823.495) INDEPENDENT STUDY: EARLY CHILDHOOD EDUCATION (1-4) An opportunity for especially qualified students to undertake research problems or study projects relevant to their interest and training under the direction of a staff member. Prerequisite: approval of program chairman. Graduate credit by consent of graduate program coordinator only.
- 25.496 (0823.496) DIRECTED READING: EARLY CHILDHOOD EDUCATION (1-4) Independent reading in selected areas of Early Childhood Education in order to provide for the individual a comprehensive coverage or to meet special needs. By invitation of the Department to major students. Graduate credit by consent of graduate program coordinator only. (G)

 $\ensuremath{\mathsf{G}} \xspace --$  may be available for graduate credit. See graduate bulletin.

# Graduate Only

- 25.509 (0823.509) GROWTH AND DEVELOPMENT OF YOUNG CHILDREN (3) Study of findings of current research in growth and development of young children; methods of studying and evaluating behavior; implications of case study data for curriculum improvement. Prerequisite: Psych. 70.511 and approval of the Department of Education.
- 25.517 (0823.517) LEARNING DISABILITIES IN YOUNG CHILDREN ADVANCED (3) A clinically oriented course emphasizing psychodiagnostic techniques designed to meet the needs of experienced teachers who wish special training in identification and remediation of the learning disabled child. Prerequisites: 6 hrs. ECE (3 hours must be 25.417 or permission), 6 hours Psychology (Child and Educational Psychology).
- 25.521 (0823.521) READING IN EARLY CHILD-HOOD EDUCATION ADVANCED (3) Emphasis on contemporary issues; advanced interpretative and critical evaluations of research in reading instruction in light of basic needs, developmental levels, and individual differences in young children. Prerequisites: Undergraduate course in reading and consent of the Department of Education.

- 25.547 (0823.547) THE TEACHING PROCESS: EARLY CHILDHOOD EDUCATION (3) Study of recent theories, methods, and findings in research on the teaching process. Analysis of teaching behaviors and exploration of teaching strategies in educational programs for young children. Prerequisite: Teaching experience, Psyc. 70.511 or 29.501, and consent of Department of Education.
- 25.553 (0823.553) PERCEPTUAL AND COGNITIVE DEVELOPMENT OF YOUNG CHILDREN (3) Survey of significant research affecting the theory and programs of education for children ages three to eight years. Prerequisites: Psych. 70.511 and/or Educ. 25.509 and approval of the Department of Education.
- 25.573 (0823.573) SEMINAR IN EARLY CHILD-HOOD EDUCATION (3) Seminar approach to current practices and trends in curriculum, materials, methods, and organization of educational programs for children ages three through eight years. A seminar paper is required. Prerequisite: Nine hours of graduate work in Early Childhood Education and 29.691.
- 25.599 (0823.599) MASTERS THESIS IN EARLY CHILDHOOD EDUCATION

# Master of Education in Early Childhood Education

For more detailed information regarding the Master of Education in Early Childhood Education see the Graduate Studies Bulletin.

# Elementary Education Program

# Undergraduate Program

The major in elementary education leads to certification to teach grades 1 through 6, grades 1 through 8 in the middle schools organization, and grade 9 provided content requirements for secondary certification are met. The program is designed to integrate classroom and laboratory experiences in such ways as to prepare students for beginning teaching in public schools.

In meeting the general course requirements and certification requirements the student must complete at least 80 hours in arts and sciences; at least 35 hours in professional education, and electives, to make a total of at least 120 semester hours of "C" or better work. A checklist guide can be found on page 88.

A concentration of related courses or a major in arts or sciences is desirable for the student in elementary education.

Deviations from the program pattern for elementary majors (i.e. in content or sequence of professional education courses) are permitted only with the written consent of the Chairman of Elementary Education.

Elementary Education Major with Mathematics Minor: Through a cooperative program of the Elementary Education and Mathematics Departments, students can use a middle school student teaching experience as a route to elementary certification with a mathematics minor. Interested students should consult with the chairmen of the Elementary Education and Mathematics Departments as early in their college program as possible.

Elementary Majors may arrange programs with minors in other selected areas by arrangement with the chairman of Elementary Education and the chairman of the other department concerned. A Geography minor, for example, has been fully developed.

# Master of Education in Elementary Education

For detailed information regarding the Master of Education in Elementary Education see the Bulletin of Graduate Studies.

# Master of Education in Reading

The Master of Education Degree Program in Reading is designed to offer experiences that will improve the teaching of reading at all levels from kindergarten through college. Specifically, the program seeks to offer courses in reading for teachers and administrators who are interested in improving their knowledge of reading and to prepare reading clinicians to teach developmental, corrective, and remedial reading. Furthermore, the program is designed to prepare reading specialists who will be capable of filling learnership roles in reading improvement programs in schools and clinics.

The Course Requirement for the Degree include 29.621, 29.623, 29.625 and 29.629 and are listed under the prefix 29 "Other Education Courses." Detailed information regarding the program is given in the Bulletin of Graduate Studies.

#### ELEMENTARY EDUCATION COURSES

COMMENCING WITH THE 1976-77 ACADEMIC YEAR, THE CURRENT ALPHABETICAL DESIGNATION "EDUC" (ELEMENTARY) WILL BE REPLACED BY A NUMERIC CODE OF 0802.

# Undergraduate Courses

12.371 ART AND THE CHILD (2-3) Major considerations of art education appropriate to the work of the elementary teacher; experi-

ences in planning and teaching art. (Not for graduate credit.)

# CHECK LIST OF DEGREE REQUIREMENTS FOR ELEMENTARY EDUCATION STUDENTS

Courses starred (\*) should be completed before Student Teaching.

120 semester hours of C or better work, including at least -

A ARTS AND SCIENCES 80 hours including:					SOCIAL SCIENCES — 15 hours <sup>3</sup>	
A. ARTS AND SCIENCES, 80 hours including:		*34.102	3	Elements of Geography		
		SCIENCE — 14 hours <sup>1</sup>	*40.	3	History	
*14.101	4	Fundamentals of Biology	*40.	3	History	
*64.101	4	Physical Science I	40.	3	History	
*14.303	3	Life Science in Elem. School	*	3	Econ., Pol. Sci., or Sociology	
64.303	3	Earth-Space Sci. in Childhood Ed.		TOTAL 60-63 hours		
		PSYCHOLOGY (General) — 3 hours	B. PROFESSIONAL EDUCATION, 36 including:		,	
*70.101	3	General Psychology	*0803.101	2		
101101	Ŭ	MATHEMATICS — 6 hours	0803.401	3	Foundations of Education (Pre- requisite: Student Teaching)	
*50.204	3	Fund. Concepts of Arithmetic	*70.201	3	Educational Psychology	
*50.205	3	General College Mathematics	0803.315	2	Ed. Meas. for Clrm. Teachers	
*40		ART — 2 hours	MUST BE TAKEN CONCURRENTLY IN CURR.			
*12.		MUSIC — 2 hours	SEMESTER			
*54.233	2	Music Fundamentals	*0802.361	4	Elem. Curriculum I (Overview; Reading Methods)	
		PHYSICAL EDUCATION — 2-3 hours	*50.323	2	Tchg. Math. in Elem. Schocol	
*60.009-059	1	Freshman Physical Education	*TWO or the	e Fo	Ilowing THREE4	
*60.101	1	Sophomore Physical Education <sup>2</sup>	12.371	2	Art and the Child and/or	
*60.102	1	Sophomore Physical Education <sup>2</sup>	54.307	Т	chg. Music in Elem. School	
*38.101	3	HEALTH—2-3 hours Current Health Problems	60.324	To	and/or chg. Phys. Ed. in Elem. School	
*30.102	3	ENGLISH — 12 hours Freshman Composition	MUST BE TAKEN CONCURRENTLY			
*30.	3		0802.462	6	Elem. Curriculum II (Methods in Read., Lang. Arts, Soc. Studies)	
*30.	3		0802.497	10	Student Teaching	
30.	3		TOTAL 36	hou	rs	
		SPEECH, DRAMA, OR PHILOSOPHY — 2-3 hours	EDUCATION	N EL	ECTIVES	

ELECTIVES IN ARTS AND SCIENCES—at least 17-20 hours. A major is desirable.

<sup>1</sup> Science transition pattern: 14.101, 64.101, 4-hour elective, and 14.303 or 64.303.

<sup>2</sup> Required of all students who take 60.324 Teaching Physical Education in the Elementary School.

<sup>3</sup> Some counties and states require 40.145-146 United States History.

<sup>4</sup> The student must take prerequisite courses in Art, Music, and/or Physical Education for the two chosen. The third methods course may be taken as an elective after Student Teaching.

Schedules for Elementary Curriculum I and II semesters will be provided by the Department.

- 12.471 ADVANCED ART EDUCATION (3) (See Art Dept. Listings.) (G)
- 12.475 TEACHING ART IN THE ELEMENTARY SCHOOL (2) Concurrent course with 479, Art in the Secondary School. For course description see 479. Open only to Art Education Majors. Prerequisite: Consent of Art Department.
- 14.303 LIFE SCIENCE IN THE ELEMENTARY SCHOOL (3) Emphasis placed on the conceptual approach to science teaching, the modes of scientific inquiry, and the utilization of living organisms in the classroom. Prerequisite: 14.101. Register through Education Department. (G)
- 50.323 TEACHING MATHEMATICS IN ELEMEN-TARY SCHOOL (2 or 3) Nature of Instruction. Organization of units of instruction, provisions for developing understandings, new programs and research findings, and techniques of evaluation. Required of all Elementary Education Majors. Prerequisite: 50.204 and 50.205.
- 50.325 TEACHING MATHEMATICS IN THE MID-DLE SCHOOL (3) (See Math. Dept. Listings.)
- 50.427 READINGS IN MATHEMATICS EDUCA-TION FOR THE ELEMENTARY SCHOOL TEACHER (1-3) (See Math. Dept. Listings.)
- 54.307 TEACHING MUSIC IN THE ELEMENTARY SCHOOLS (2, 3) Acquaints students with music programs in the elementary school through lecture, class discussion, and practice with children. Prerequisite: 54.233.
- 60.324 TEACHING PHYSICAL EDUCATION IN THE ELEMENTARY SCHOOL (2) (see Phys. Educ. Dept. Listings.)
- 64.303 EARTH-SPACE SCIENCE IN CHILDHOOD EDUCATION (3) (see Physics Dept. Listings.)
- 76.375 (0834.375) TEACHING SCIENCE IN THE ELEMENTARY SCHOOL (2) Significance of science for the elementary school child; its contribution toward his development; criteria for selecting science experiences for children. Open only to students in the Student teaching block.
- 76.488 (0834.488) AEROSPACE EDUCATION WORKSHOP (3) In cooperation with CAP, USAF, and NASA. A fund of general knowledge about aviation and space exploration. Teaching materials, resources, and field experiences. Usually a weekend at Florida's Cape Kennedy Space Center and other daylong tours TBA. For K-12 teachers, supervisors, administrators and students of teaching. LAB FEE \$15.00 which includes travel charges. 3 weeks. Summers only.
- 78.375 TEACHING SOCIAL STUDIES IN THE ELEMENTARY SCHOOL (3) Locating, organizing, synthesizing, and interpreting funda-
- (G) May be available for graduate credit. See Graduate Bulletin.

- mental social information. Evenings and summers only; part of Curriculum II in day program.
- 84.375 SPEECH IN THE ELEMENTARY SCHOOL (3) (See Communications Dept. Listings.)
- 26.305 (0802.375) CREATIVE EXPRESSION (6) Experiences in planning and teaching an integrated and creative program of art, music and physical education activities at the elementary level. To be taken concurrently with Curriculum I. Prerequisite: Art, 2 or more hours; Music 54.233; Ph. Ed. 60.101, 60.102.
- 26.311 (0802.311) CHILD AND THE ELEMENTARY SCHOOL CURRICULUM (3) The child, the school, and community, and the curriculum of the modern elementary school are interpreted in terms of the roles and functions of the public school in a democratic society. Prerequisite: 70.101, 70.201. Evenings and summers only.
- 26.321 (0802.321) TEACHING LANGUAGE ARTS IN THE ELEMENTARY SCHOOL (3) Language needs and abilities of children. Development of effective language skills with emphasis on reading. Evenings and summers only; part of Curriculum II in day program.
- 26.323 (0802.323) TEACHING READING IN THE ELEMENTARY SCHOOL (3) Introduction to reading in the elementary school. A survey of varied approaches with emphasis on skills development. Evenings and summers only; part of Curriculum I in day program.
- 26.361 (0802.361) ELEMENTARY CURRICULUM I

  (4) Foundations of reading instruction and an overview of elementary schools including curriculum, organization, planning, evaluation, teacher characteristics; observation and participation in public schools. Prerequisite: Approval of Education Department.
- 26.371 (0802.371) FIELD STUDIES FOR ELEMEN-TARY TEACHING (2) Initial experiences in teaching and learning activities in specified settings will be provided. Students will study school activities which are directly related to classroom instruction as well as community related activities. Prerequisite: One course in education or Educational Psychology or consent of instructor.
- 26.427 (0802.427) READING AND OTHER LANGUAGE ARTS IN THE ELEMENTARY SCHOOL ADVANCED (3) Application of theory and research to the teaching of reading and the other language arts. Prerequisite: 26.321, 26.323, or 26.462. May be taken for graduate or undergraduate credit in evenings and summers. (G)
- 26.429 (0802.429) METHODS AND PRINCIPLES OF READING INSTRUCTION — ADVANCED (3) Principles involved in building a developmental reading program; prevention of reading difficulties; methods of remedial reading. Prerequisite: 26.323 or 26.462. May

- be taken for undergraduate or graduate credit in the evenings and summers. (G)
- 26.441 (0802.441) CURRICULUM DEVELOPMENT IN THE ELEMENTARY SCHOOL (3) The child and his curriculum. The teacher's role in curriculum as a process. Principles and philosophies of curriculum development. Objectives, practices, materials, and evaluation trends. Prerequisite: 26.497. (G)
- 26.457 (0802.457) ENGLISH FOR THE NON-ENGLISH SPEAKING CHILD (3) Methods of teaching English to elementary school children whose native tongue is another language. Prerequisites: Elementary language arts methods course or elementary teaching experiences or consent of instructor.
- 26.458 (0802.458) PRACTICUM: ENGLISH FOR THE NON-ENGLISH SPEAKING CHILD (1-4) Supervised practical experience in teaching English to elementary school children whose native tongue is another language. Prerequisite: 26.457 and student teaching or teaching experience.
- 26.462 (0802.462) ELEMENTARY CURRICULUM II (6) Integration of language arts (spelling, writing, literature, listening, usage, vocabulary development), social studies (nature of groups, research units, history, economics, government, sociology), and advanced reading instruction. Prerequisite: Elementary Curriculum I and consent of Education Department. To be taken during student teaching semester.
- 26.494 (0802.494) TRAVEL AND STUDY: ELE-MENTARY EDUCATION (1-6) Study abroad of educational facilities, programs, or practices, or selected projects in Elementary

#### Graduate Only

- 50.521 SEMINAR IN TEACHING ARITHMETIC (3) (See Math. Dept. Listings.)
- 76.585 (0834.585) SEMINAR IN ELEMENTARY SCHOOL SCIENCE (3) Seminar approach to current practices and trends in organizing, teaching and improving programs in elementary school science. Each student conducts a limited research on some aspect of science teaching. Prerequisite: At least three basic science courses and elementary teaching experience.
- 78.585 SEMINAR IN ELEMENTARY SCHOOL SO-CIAL STUDIES (3) Trends, content, issues, and materials involved in the teaching of social studies. Each student will be expected to explore in depth one aspect of the subject and present his findings to the group. (G)
- 26.616 (0802.616) THE ADMINISTRATION OF THE ELEMENTARY SCHOOL (3) Analysis of principles of elementary school administration, the administrator's roles and responsibilities, human relations and personnel management, public relations, management of the school unit and curriculum. Prerequisite:

- Education topics. By special arrangement with program chairman and sponsoring instructors. Consent of graduate program coordinator required for graduate degree credit.
- 26.495 (0802.495) INDEPENDENT STUDY IN ELE-MENTARY EDUCATION (1-4) An opportunity for especially qualified students to undertake research problems or study projects relevant to their interest and training under the direction of a staff member. Prerequisite: Approval of program chairman. Grad. credit by consent of Grad. Program Coordinator only. (G)
- 26.496 (0802.496) DIRECTED READINGS IN ELE-MENTARY EDUCATION (1-4) Independent reading in selected areas of Elementary Education in order to provide for the individual a comprehensive coverage or to meet special needs. By invitation of the Department to major students. Grad. credit by consent of Graduate Program Coordinator. (G)
- 26.497 (0802.497) STUDENT TEACHING IN ELE-MENTARY SCHOOL (6-10) Ten to twelve weeks, full time, in public school classrooms under the guidance of master teachers. Conferences with the college supervisor. Prerequisite: Approval of Education Department. (Variable credit in Art, Music, and Physical Education.)
- 26.498 (0802.498) DIFFERENTIATED STUDENT TEACHING ELEMENTARY (1-8) Student teaching experiences in addition to those in 26.497 or student teaching in special subject areas, according to needs and interests of the student. Prerequisite: Consent of the Director of Laboratory Experiences.
  - Three years teaching experience, teacher certification and nine hours of graduate credit.
- 26.647 (0802.647) THE TEACHING PROCESS: ELEMENTARY EDUCATION (3) Study of recent theories, methods, and findings in research on the teaching process. Analysis of teaching behaviors and exploration of teaching strategies in educational programs for elementary children. Prerequisite: Teaching experience, and PSYCH 70.511.
- 26.648 (0802.648) INDIVIDUALIZING LEARNING IN THE ELEMENTARY SCHOOL (3) Consideration is to be given to the theory of individualizing learning and to the related restructuring of organizational patterns. Emphasis is to be placed on behavioral objectives, learning centers, listening stations, task folders, and media centers. A project is required. Prerequisites: Certification and Teaching Experience or Consent of Instructor.
- 26.665 (0802.665) THEORETICAL AND PRACTI-CAL BASES OF CURRICULUM DEVELOP-MENT IN THE ELEMENTARY SCHOOL (3)

History of curriculum development in the elementary school; basic considerations affecting curriculum development; patterns of organization; objectives, practices and evaluation; problems in curriculum development. Prerequisite: Consent of program coordina-

26.675 (0802.675) SEMINAR IN ELEMENTARY EDUCATION (3) Scientific investigation of selected aspects of education with emphasis on classroom application. A paper involving description and evaluation of the investigation will be required. Prerequisite: 30 hours of graduate work including 29.691.

26.681 (0802.681) SEMINAR IN ELEMENTARY SUPERVISION (3) Role of the supervisor; supervisory practices and techniques. Students may concentrate in areas related to their professional interests. Prerequisite: Nine hours of graduate work.

26.699 (0802.699) MASTERS THESIS IN ELEMEN-TARY EDUCATION

# Secondary Education and Dual Certification Programs: Adult Education

The programs of education for junior and senior high school teachers are designed to bring about a close integration between teaching methods and the practical experiences of observation and student teaching. After introductory courses in the nature of today's schools and their students, the prospective secondary teacher enters the student teaching semester. Methods, philosophy, techniques, and practice are combined to provide a thorough preparation for teaching. The student teaching semester is followed by a course in the sociological, philosophical, psychological, and historical foundations of education.

There is not simply a single "Secondary Education" major. Rather, a student must satisfy the general course requirements of the college and complete a major in a department whose subject area is among those for which a secondary school teaching certificate may be issued. In addition to this major, the following courses are required in Teacher Education:

		Wh	en Taken	
Professional Courses Required	$Sem.\ Hrs.$	Year	Semester	
(29.101) Careers in Education	2	I or II	1 or 2	
(70.201) Educational Psychology	3	II	1 or 2	
(Prequisite: General Psychology)				
(27.341) Principles of Secondary Education—	3	III	1 or 2	
(Prerequisite: 70-201)—Taken the				
semester prior to student teaching				
(27.360) Teaching Reading in the Sec. Sch.	3	III	1 or 2	
(Above course required of English and Social	Science maj	ors-re	commended to	
others. Taken concurrently with Principles of Se	c. Ed.)			
Methods of Teaching Major Subject	3	III-2	or IV-1 or 2	
(Taken during Student Teaching semester)	(Sci. majors	take 2	hrs. prior and	
2 hrs. during)				
(13.369) Educational Media Laboratory*	1	III-2	or IV-1 or 2	
(*Above course is combined for those stude	ents teachin	g in a	Middle School	
Center in a 3 credit course titled "Teaching				
combined in a methods course in other centers.				
(27.398) Student Teaching	10	111-2	or IV-1 or 2	
(A minimum grade of "C" in Principles of Sec				
tional Programs, and in teaching methods is one of the pre-requisites. Students				
must also satisfy academic requirements of the departments concerned.)				
(29.401) Foundations of Education	3	IV	1 or 2	
Prerequisite: Student Teaching	J	1 4	1 01 2	
Trongalate, Dudent Teaching				

The following Majors are recognized for Secondary Certification. The listings here are general guides only and subject to revision by the departments concerned. Students must check with the appropriate department to be sure all details of the requirements for the major are fulfilled. It is also the student's responsibility to see that he is meeting the State Requirements under which he wishes certification.

# Biology

Required in Major (30 hrs.): 101 Fundamentals of Biology (4); 105 General Botany (4); 109 Functional Anatomy of Vertebrates (4); 331 Field and Systematic Botany (4); 351 Field and Systematic Vertebrate Zoology (4); 401 Genetics (4); plus 6 semester hours of electives from departmental offerings.

Required in Related Subjects (23 hrs.): 101-102 General Chemistry (8); 231 Organic Chemistry (4); 211-212 General Physics (8); 115 Mathematics I (3).

#### Chemistry

Required in major (39 hours): 101-102 General Chemistry (8); 211 and 411 Analytical Chemistry (8); 331-332 Organic Chemistry (10); 341-342-343-344 Physical Chemistry (8); 422 Inorganic Chemistry (4); 401 Seminar (1).

Required in related subjects (at least 16): General Physics I and II (8); Mathematics through Calculus II (at least 8).

#### English

Required in Major (36 hrs.): Freshman Composition (or Advanced Freshman English) (3); English Literature (6); Elements of Poetry (3); Approaches to English Study (3); plus 21 hours from departmental offerings (three of which may be in a lower division course. At least one course must be chosen from offerings in each of the following areas: Language or Literary Criticism; Literature Beginnings to 1700; Literature 1700 to 1832; Literature 1832 to 1900; Individual Major Authors; One course must be in American Literature.

Intermediate level of a foreign language is strongly recommended.

Teacher education majors are also required to take 27.360 Teaching Reading in the Secondary School and elect either 30.332 Comparative Grammar, or 30.431 Structure of the English Language. Either 30.327 Structural Linguistics, or 30.430 History of the English Language is strongly recommended. Other recommended electives for Teacher Education Majors are: 30.226 Introduction to Classical Mythology; 30.331 Advanced Exposition; 30.401 Literature of Black America; 84.106 Voice and Diction; 84.213 General Semantics; 27.359 Contemporary Materials for Teaching English in Secondary Schools; 27.358 Teaching Composition in the Secondary School. And from Morgan State College: Introduction to the Negro in American Literature, The Negro in American Prose, and American Folklore.

#### French

Required in Major (27 semester hours beyond the Intermediate [2nd year] Level of the Language): 321-322 Survey of French Literature I & II (6); 301-302 Advanced Conversation and Composition (6); 391 Advanced Grammar (3); plus 12 additional semester hours of electives in the major. French Phonetics (32.395) is highly recommended before student teaching.

#### General Science (Natural Science)

Required in Major (51 hrs.): 101-102 General Chemistry (8); 101 Fundamentals Biology (4); 211-212 General Physics (8); 105 General Botany (4); 109 Functional Anatomy of Vertebrates (4); 211 Analytical Chemistry or 231 Organic Chemistry (4); 121 General Geology (3); 211 General Astronomy (3); Advanced Laboratory 291 or 491 or 401 (2); Electives (11).

Required in Related Subjects (3 hrs.): 115 Mathematics I (3).

#### Geography

Required in Major (30 hrs.): Lower Division (100's-200's) courses (9); Upper Division (300's-400's) courses (21). (At least 9 hrs. of which must be courses designated as systematic or technique courses).

Required in Major (27 Semester Hours beyond the Intermediate [2nd year] Level of the Language.): 321-322 Survey of German Literature I & II (6); 301-302 Advanced Conversation & Composition I & II (6); 391 Advanced Grammar (3); plus 12 additional semester hours of electives in the major.

#### Health

Required in Major (23 hrs.): 101 Current Health Problems (3); 103 First Aid (2); 401 Sex Education & Family Living (3); 202 Principles and Practices of Public Health (3); 201 Health Education in the School I (3); 205 Health Education in the School II (3); 405 Drugs in Our Culture (3); 402 Seminar in Health (3). Two health elective courses.

Required in Related Subjects (26 hrs.): 14.101 Contemporary General Biology (4); 22.100 or 105 Chemistry (4); Human Anatomy & Physiology I & II (8); General Psychology (3); 80.101 Introduction to Sociology (3); Microbiology (4); 50.231 Statistics; and two Phys. Ed. electives.

Note: Health Education majors presently prepare only for secondary certification. However, they do take "Survey of Education Programs" in lieu of "Principles of Secondary Education." Also, they take 8 semester hours of student teaching instead of 10. A combination School and Public Health Specialization is also available.

#### History

Required in Major (36 hrs.): History of the United States 145-146 (6); History of European Civilization 241-242 (6); Choice of 40.290 Introduction to Historical Study or 40.490 Interpretive Problems in History or 40.498 Philosophy of History (3); A course from African, Asian or Latin American fields (3); plus 18 additional hours elected from offerings of the department (12 hours must be upper division).

#### Mathematics

Required in Major (30 hrs.): 261 Fundamentals of Math (3); 273 Calculus I Differential (4); 274 Calculus II Integral (4); 353 Elementary Geometry from an Advanced Standpoint (3); 361 Algebraic Structures (4); Plus 11 upper division elective hrs. in math.

Required in Related Subjects (8 hrs.): General Physics I & II (8).

#### **Physics**

Required in Major (28 hours): 66.221-222 or 66.211-212 General Physics. Any two of 66.385 Mechanics and Heat, 66.368 Modern Physics, 66.387 Electricity and Optics. Either 66.302 Thermodynamics and Kinetic Theory or 66.321 Introductory Mathematical Physics. Either 66.301 Mechanics or 66.305 Electricity and Magnetism; and 66.401 Physics Seminar.

#### Social Science

Required in Major, 54 hours: 40.241 History of European Civilization I (3) and 40.242 History of European Civilization II (3); 40.145 U.S. History I (3) and 40.146 U.S. History II (3); 34.101 or 34.102 Elements of Geography (3) plus one upper division course (3); 68.101, 103, 107, 207 Political Science (any two of these courses for 6 credit hours); 80.101 Introduction to Sociology (3) and 10.207 Cultural Anthropology (3); 24.101 Economic Principles and Problems I (3) and 24.102 Economic Principles and Problems II (3); 12 hours of upper division electives in the social science disciplines plus 6 hours in lower or upper division history electives to meet state certification requirements.

#### Sociology

Required in Major (30 hrs.): 101 Introduction to Sociology (3); 407 Social Theory (3); 111 Behavioral Statistics (3); 495 Research Methods (3); plus 18 semester hours of electives from offerings of the department.

#### Spanish

Required in Major (27 semester hours beyond the Intermediate [2nd year] Level of the Language): 321-322 Survey of Spanish Literature I & II (6); 301-302 Advanced Conversation & Composition I & II (6); 391 Advanced Grammar (3); plus 12 additional semester hours of electives in the major.

#### Speech-Drama

Required in Major (36 hrs.): 131 Fundamentals of Speech Communication (3); 106 Voice and Diction (3); 203 Advanced Public Speaking (3); 103 Introduction to the Theater (2); 310 Phonetics of American English (3); 221 Acting I (Oral Interpretation of Literature) (3); 211 Play Production (4); plus 15 semester hours of specified electives from departmental offerings. Speech and Drama Secondary majors are *very strongly* urged to complete 26 hours of English courses.

# **Dual Certification**

The following majors are recognized only for dual certification (both elementary and secondary), and students must prepare to teach K-12. They must complete the general course requirements of the college, the requirements of the major department, and the following Teacher Education courses: Educational Psychology (Prerequisite: General Psychology); Survey of Educational Programs 27.319 prerequisite 70.201 (in lieu of "Principles of Secondary Education); Methods of teaching major subject in Elementary School; Methods of teaching major subject in Secondary School; Student teaching in Elementary School; Student teaching in Secondary School; Foundations of Education 29.401 (prerequisite: student teaching).

#### Art Education

Required in Major: 103 Two Dimensional Design (3); 104 Three Dimensional Design (3); 111 Drawing and Appreciation of Drawing (3); 121 History of Art, Ancient to Renaissance (3); 122 History of Art—Baroque to Modern (3); 229 Painting I; Oil (3); 230 Watercolor and Related Media (3); 231 Ceramics (3); 240 or 241 Sculpture (3); 225 Design for Commercial Art; 201 Color (3); 234 The Photographic Image(3); 375 Materials and Techniques for Teachers of Art (3).

Plus at least one of the following: 12.347 Screen Process, 12.349 Relief Process, 12.449 Intaglio Process, or 12.451 Lithographic Process (3).

Plus 12 additional hours — from departmental offerings, preferably in an area of specialization. (Electives also permitted in Stage Design, Photography, Films) (12). In addition to the Teacher Education courses, 12.455 "Proseminar in Teaching of Art" is required.

Required in Major (Instrumental Music 63; Vocal and General Music 63): Music Theory and Laboratory (16); Music Organizations (7); Piano Class (2); Voice Class (1); Brass Class\* (2); String Class\* (2); Percussion Class\* (2); Woodwind Class\* (2); History of Music I & II (6); Choral and Instrumental Arranging (3); Conducting (Either Instrumental or Choral) as case may be (3); Form and Analysis (3); Private Lessons (7); General Music (3).

In addition, the following course is required which could be considered part of the professional courses. Organization and Administration of Music Education

(3).

\*Note: Vocal majors take these classes for one semester hour only. In lieu of this they must elect 3 additional hours, and take Voice Class for only 2 semester hours instead of 1.

# $Physical\ Education$

Required in Major (45 hrs.): 103 First Aid (1); 199 Overview of Physical Education (2); 203 Curriculum in Physical Education (3); 311 Kinesiology (3); 313 Physiology of Exercise (2); 303 Organization and Administration of P.E. (3); 309 Test and Measurements (P.E.) (3); 401-402 Principles & Problems of Physical Ed. I & II (4); 321-322 Coaching and Officiating I & II 62 (Women) (Required for men majors, elective for Women) (2); 423 Adaptive Physical Education (Required for women majors, elective for men) (2); 201 School Health Programs (3); 101 Current Health Problems (3); 315 Care & Prevention of Athletic Injuries (Required for men, elective for women) (2); plus 12 hours of laboratory skills, 9 of which are specified.

Required in Related Subjects (16 hrs.): 101 General Biology (4); 101 General Physics B (5); 113-114 Human Anatomy & Physiology I & II (8); 50.201 Elements of Mathematics is elective but recommended.

# Master of Education in Secondary Education

For detailed information regarding the Master of Education in Secondary Education see the Bulletin of Graduate Studies.

#### UNDERGRADUATE COURSES IN SECONDARY EDUCATION

COMMENCING WITH THE 1976-77 ACADEMIC YEAR, THE CURRENT ALPHABETICAL DESIGNATION "EDFS" (SECONDARY) WILL BE REPLACED BY A NUMERIC CODE OF 0803.

- 27.319 (0803.319) SURVEY OF EDUCATIONAL PROGRAMS (3) Survey of educational programs and services K-12. Combines theoretical aspects of (26.361), Elementary Curriculum I and (27.341) Principles of Secondary Education. Open only to those students in art, music, physical education, speech pathology, or health, whose majors lead directly to certification in elementary and secondary education. Prerequisite: Junior standing, Educational Psychology (70.201) and consent of instructor, the chairman of student's major department and the chairman of secondary education.
- 27.341 (0803.341) PRINCIPLES OF SECONDARY EDUCATION (3) Philosophy and purpose of secondary education; nature of secondary education programs; principles of teaching and learning; basic techniques in instruction. Prerequisite: Junior standing, Educational Psychology 70.201 and permission of chairman of Secondary Education. Field experi-

- ence required. To be taken the semester prior to student teaching.
- 27.353 (0803.353) TEACHING MODERN FOREIGN LANGUAGE IN THE SECONDARY SCHOOL (3) Aims and purposes of foreign language instruction; current curricular trends, including the importance of modern language teaching practices. Open to juniors or seniors, who plan to teach foreign language, with consent of instructor. Prerequisite: 27.341.
- 27.355 (0803.355) TEACHING SOCIAL STUDIES IN THE SECONDARY SCHOOL (3) Objectives, curriculum, materials and instructional procedures in the teaching of social studies. Open to students in the student teaching block and others with equivalent backgrounds and objectives. Prerequisite: 27.341.
- 27.357 (0803.357) TEACHING ENGLISH IN THE SECONDARY SCHOOL (3) Language Arts as taught in secondary schools. Open to

- students in the student teaching block and to others with equivalent backgrounds and objectives with consent of the instructor. Prerequisite: 27.341.
- 27.358 (0803.358) TEACHING COMPOSITION IN THE SECONDARY SCHOOL (3) This course includes: grammar vocabularies, motivational techniques, evaluation, student publications, varieties of purposes for writing, oral composition, laboratory experiences and individual problem analysis. Prerequisite: 27.357 (30.379) or consent of instructor. (G)
- 27.359 (0803.359) CONTEMPORARY MATERIALS FOR TEACHING ENGLISH IN SECONDARY SCHOOLS (3) Application of new materials designed for teaching the language arts in the secondary school including records, films, SRA materials, programmed learning, and television. Prerequisite: 27.357 or consent of instructor. (G)
- 27.360 (0803.360) TEACHING READING IN THE SECONDARY SCHOOL (3) General developmental reading skills; identification, diagnosis and remediation of reading problems; comprehension, vocabulary building, workstudy skills. (G)
- 84.379 TEACHING SPEECH AND DRAMA IN THE SECONDARY SCHOOL (see Communications Dept. Listings.)
- 50.423 (50.379) TEACHING MATHEMATICS IN THE SECONDARY SCHOOL (see Math. Dept. Listings.)
- 50.429 READINGS IN MATHEMATICS EDUCA-TION FOR THE SECONDARY SCHOOL TEACHER (see Math Dept. Listings).
- 54.308 METHODS OF TEACHING INSTRUMENTAL MUSIC (See Music Dept. Listings).
- 54.309 METHODS OF TEACHING CHORAL AND GENERAL MUSIC IN SECONDARY SCHOOL (See Music Dept. Listings).
- 12.479 TEACHING ART IN THE SECONDARY SCHOOL (2) (See Art Dept. Listings).
- 60.325 TEACHING PHYSICAL EDUCATION IN THE SECONDARY SCHOOL (see Phys. Educ. Dept. Listings).
- 76.301 (0834.301) FIELD COURSE IN SECOND-ARY SCIENCE TEACHING METHODS (2) Analysis and evaluation of current materials and techniques in secondary science teaching. To be taken concurrently with student teaching at off-campus center. Prerequisite: 76.379 and must be student teaching.
- 76.379 (0834.379) TEACHING SCIENCE IN THE SECONDARY SCHOOL (2) Selection of appropriate content, method and evaluation techniques, analysis of textbooks and resource materials. Must be taken in semester prior to student teaching.
- 76.380 (0834.380) TEACHING SCIENCE IN THE SECONDARY SCHOOL (3) Selection of appropriate content, method and evaluation techniques, analysis of textbooks and re-

- source materials. Open only to Special Professional Program Students, or to those completing work in Summer and Evening classes.
- 76.401 (0834.401) SEQUENTIAL SCIENCE MOD-ULES FOR THE ELEMENTARY SCHOOL TEACHER (1, 2, or 3) Three different modules of instruction including (1) Life Science, and (2) Physical Science, and (3) Earth-Space Science, will be offered for teachers of the primary and intermediate grades. The course will emphasize instructional strategies in both the processes and content of the science. A student may elect to take 1, 2, or all 3 modules for 1, 2, or 3 credit hours respectively. All students must attend the first class meeting for course orientation. Thereafter, each module will meet once a week for four weeks. Each meeting will consist of approximately four hours laboratory work. Prerequisites: Teaching experience in the elementary schools.
- 27.398 (0803.398) STUDENT TEACHING IN SEC-ONDARY SCHOOL (6-14) Practical experience in observation, participation, and student teaching in public school situation. Prerequisite: 27.341 or 27.319 and appropriate methods course. Student Teaching is offered in the following subject areas:

Officied III	the following subject a	icas.
27.398 (26.398)	Art	(6)
27.398 (26.398)	English	(10)
27.398 (26.398)	Speech and Dramatics	(10)
27.398 (26.398)	Mathematics	(10)
27.398 (26.398)	French	(10)
27.398 (26.398)	German	(10)
27.398	Health	(8 or 14)
27.398 (26.398)	Music	( 6)
27.398 (26.398)	Physical Education	(6-7)
27.398 (26.398)	Biology	(10)
27.398 (26.398)	Secondary School	
	Science	(10)
27.398 (26.398)	Social Studies	(10)
27.398 (26.398)	Spanish	(10)
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- 27.399 (0803.399) DIFFERENTIATED STUDENT TEACHING SECONDARY (1-8) Student teaching experiences in addition to those in 27.398 or student teaching in special subject areas, according to needs and interests of the student. Prerequisite: Consent of the student's area director.
- 27.421 (0803.421) THE JUNIOR HIGH SCHOOL (3)
  Principles, purposes, functions, and characteristics of the Junior High School, with emphasis upon its organization and curriculum. Prerequisite: 26.361 or 27.319 or 27.341.
  (G)
- 27.423 (0803.423) THE MIDDLE SCHOOL (3) Functions and characteristics of the middle school; emphasis on nature of transescent youth (ages 10-14), curriculum, and organizational patterns. Prerequisite: 26.361, or 26.462, or 27.319, or 27.341. (G)
- 27.425 (0803.425) TEACHING IN THE MIDDLE SCHOOL (3) Instruction in the methods, re-

<sup>(</sup>G) May be available for graduate credit. See Graduate Bulletin.

- quired for teaching in the middle school. An individualized program of instruction, readings, observations and teaching experiences will be planned for each student. Prerequisite: Teacher experience, student teaching, or concurrent with student teaching. (G)
- 27.451 (0803.451) THE SLOW LEARNER IN THE SECONDARY SCHOOL (3) Explores motivational devices, discipline, planning instruction, testing and evaluation for the slow learner as well as techniques for developing an adequate self-concept and maintaining a positive classroom atmosphere. Prerequisite: Teaching experience, student teaching, or consent of instructor. (G)
- 27.457 (0803.457) METHODS OF TEACHING ENG-LISH AS A SECOND LANGUAGE (3) Teaching teachers methods of teaching English as a second language. Attention is given to the use of visuals, contrastive analysis, drill techniques, and other methods and resources.. Prerequisites: Teaching experience or consent of instructor.
- 27.461 (0803.461) TEACHING READING IN THE SECONDARY CONTENT AREAS (3) Teaching reading study skills leading to reading efficiency and problem solving associated with specific subject matter content. Prerequisites: 27.360 Teaching Reading in the Secondary School, (G)
- 27.463 (0803.463) DEVELOPMENTAL READING FOR THE EARLY ADOLESCENT (3) Methods of designing and teaching developmental

# Graduate Only

- 27.641 (0803.641) CURRICULUM DEVELOPMENT IN THE SECONDARY SCHOOL (3) Principles and philosophies of curriculum development; objectives, practices and evaluation trends; the teacher's role. Prerequisite: Consent of Instructor.
- 27.643 (0803.643) THE ADMINISTRATION OF THE SECONDARY SCHOOL (3) Analysis of principles of school administration, the administrator's roles and responsibilities, human relations and personnel management, public relations, maangement of the school unit and curriculum. Prerequisite: Three years teaching experience, teacher certification and nine hours of graduate credit.
- 27.647 (0803.647) THE TEACHING PROCESS: SECONDARY EDUCATION (3) Study of recent theories, methods, and findings in research on the teaching process. Analysis of teaching behaviors and exploration of teaching strategies in educational programs for Secondary students. Prerequisite: Teaching experience, either Psyc. 70.511 or Educ. 29.501, and consent of Education Graduate Coordinator. One semester per year, day or/and evening and Summer.
- 27.679 (0803.679) SEMINAR IN SECONDARY

- reading programs for the middle or junior high school student. Attention to the following: providing for individual differences, teaching students to read critically, developing and extending reading interests. Prerequisite: Ed. Psychology or Adolescent Psychology or equivalent. (G)
- 27.494 (0803.494) TRAVEL AND STUDY IN SEC-ONDARY EDUCATION (1-6) Study abroad of educational facilities, programs or practices, or selected projects in education topics. By special arrangement with program chairman and sponsoring instructors. Consent of graduate program coordinator required for graduate degree credit. (G)
- 27.495 (0803.495) INDEPENDENT STUDY IN SECONDARY EDUCATION (1-4) An opportunity for especially qualified students to undertake research problems or study projects relevant to their interest and training under the direction of a staff member. Prerequisite: Consent of Chairman of Secondary Education. Graduate credit by consent of Graduate Program Coordinator only. (G)
- 27.496 (0803.496) DIRECTED READINGS IN SEC-ONDARY EDUCATION (1-4) Independent reading in selected areas of Secondary Education in order to provide for the individual a comprehensive coverage or to meet special needs. By Invitation of the Department to major students. Obtain consent of chairman of Secondary Education. Graduate credit by consent of Graduate Program Coordinator only. (G)
  - SCHOOL SOCIAL STUDIES (3) A seminar approach to current research, trends, practices, issues, content, materials, and problems in the teaching of contemporary secondary school social studies. Individual reading and research will be pursued on selected topics culminating in a seminar paper. Prerequisite: Consent of instructor, or prior teaching experience in social studies.
- 27.681 (0803.681) SEMINAR IN SECONDARY ED-UCATION (3) Scholarly investigation of selected aspects of secondary education with emphasis on classroom application. A paper involving description and evaluation of the investigation will be required. Prerequisite: Twenty-four hours of graduate work including 29.691. (G)
- 27.683 (0803.683) SEMINAR IN SECONDARY SU-PERVISION (3) Role of the supervisor; supervisory practices and techniques. Students may concentrate in areas related to their professional interests. Prerequisite: Nine hours of graduate work in the field of education.
- 27.699 (0803.699) MASTERS THESIS IN SEC-ONDARY EDUCATION
- (G) May be available for graduate credit.

#### COURSES IN ADULT EDUCATION

COMMENCING WITH THE 1976-77 ACADEMIC YEAR, THE CURRENT ALPHABETICAL DESIGNATION "EDPM" (ADULT EDUCATION) WILL BE REPLACED BY A NUMERIC CODE OF 0807.

- 27.485 (0807.485) ADULT EDUCATION (3) Introduction to the historical and philosophical evolution of adult education in the United States in relationship to current aims, types of programs, and issues. Prerequsite: Consent of instructor. (G)
- 27.487 (0807.487) TEACHING THE ADULT LEARNER (3) Teaching-learning activities at various levels of adult education. The
- needs, motivation, and abilities of the adult learner are stressed. Prerequisite: Consent of instructor. (G)
- 27.489 (0807.489) PRINCIPLES OF READING IN-STRUCTION FOR ADULTS (3) Causes of adult reading disabilities, evaluation relevant to reading disability, and the methods and materials employed in the remediation process. Prerequisite: Consent of instructor. (G)

# **Special Certification Programs**

Programs leading to State certification for Safety and Driver Education instructors, School Librarians, Urban teachers, and Speech and Hearing Clinicians for tors, School Librarians, and Speech and Hearing Clinicians for the schools. Safety and Driver Education courses carry graduate credit but may not be applied toward a Master's degree.

# Safety and Driver Education Program

Requirements for a Minor in Safety and Driver Education

General requirements: (1) A bachelor's degree and (2) A teaching certificate with a teaching major; or (1) Complete the General Education Requirements,

- (2) Develop a major and meet certification requirements in the major, and
- (3) Complete the following as elective courses: Educational Psychology; Principles of Secondary Education; Audio-Visual Laboratory or Methods and Materials in New Educational Media; and First Aid (Standard or Advanced Red Cross Certificate).

Specific requirements: (1) Complete 15 credit of required Safety and Driver Education courses: 28.430, 28.431, 28.432, 28.433, and 28.434 and (2) Complete 9 credits of Safety, Driver Education or Transportation courses as electives.

COMMENCING WITH THE 1976-77 ACADEMIC YEAR, THE CURRENT ALPHABETICAL DESIGNATION "EDPM" (DRIVER AND SAFETY EDUCATION) WILL BE REPLACED BY A NUMERIC CODE OF 0836.

- 28.430 (0836.430) PRINCIPLES OF ACCIDENT PREVENTION (3) Includes a survey of the history and philosophy of the safety education movement, need for safety education, aims and objectives, accident causation and prevention, and the role of education in eliminating environmental hazards and reducing avoidable human error. (G)
- 28.431 (0836.431) HIGHWAY TRANSPORTATION SYSTEM AND DRIVER TASK ANALYSIS (3) History and philosophy of automobile and highway safety engineering, U.S. and International traffic controls, traffic laws and regulations, critical analysis of traffic accidents and causation, and attitude factors. (May be taken concurrently with 28.432.) (G)
- 28.432 (0836.432) METHODS OF TEACHING IN DRIVER EDUCATION AND SAFETY (3) Specialized techniques for safety and driving instruction, including A-V aids, psychophysical testing and evaluation, programmed instruction, multiple-car facility, on-street instruction, detonator demonstration and applications. (May be taken concurrently with 28.431.) (G)

- 28.433 (0836.433) MULTIPLE CAR FACILITIES AND ON-STREET INSTRUCTION IN DRIVER EDUCATION (3) Supervised student teaching in Driver Education, including classroom and in-car, and utilization and planning for multiple-car facility: (May be taken concurrently with 28.434.) Prerequisite: 28.341 and 28.342; Maryland license and 3 years driving experience with good record. (G)
- 28.434 (0836.434) FIXED BASE SIMULATION AND ON-STREET INSTRUCTION IN DRIVER EDUCATION (3) Supervised student teaching using driving simulators. Theory, mechanics, techniques, utilization and evaluation of driving simulators. (May be taken concurrently with 28.433.) Prerequisite: 28.431 and 28.432; Maryland license and 3 years driving experience with good record. (G)
- 28.435 (0836.435) PROGRAMMED INSTRUCTION FOR DRIVER EDUCATION (2) Philosophies and principles of programmed instruction. Analysis and evaluation of commercial programs and teacher-made programs; current

<sup>(</sup>G) May be available for graduate credit.

research and trends. Programming project is required with direct application through instructional utilization. Prerequisite: 15 credits in approved Safety and Driver Education courses and/or approval of Director. (G)

- 28.436 (0836.436) MULTI-MEDIA TECHNIQUES FOR DRIVER EDUCATION (2) A laboratory approach to the planning and utilization of multi-media instruction. Principles and theory of multi-media communications; survey of literature and current trends. A project is required in the design, production and field testing of an instructional package. Prerequisite: 15 credits in approved Safety and Driver Education courses and/or approval of Director. (G)
- 28.437 (0836.437) AUTO MECHANICS FOR DRIV-ING INSTRUCTORS (2) Acquaints students with mechanics of automobile to enable him to better teach this area and 'trouble-shoot' in minor mechanical emergencies. Laboratory approach utilized. Prerequisite: 15 credits in approved Safety and Driver Education courses and/or approval of Director. (G)
- 28.438 (0836.438) CONCEPTUAL MODELS IN ACCIDENT CAUSATION (3) Treatment of the driver-behavior problem in its relation to many of the psycho-physical factors and forces in the traffic environment that impinge upon the man behind the wheel. Prerequisite: 15 credits in approved Safety and Driver Education courses and/or approval of Director. (G)
- 28.439 (0836.439) BASIC PUPIL TRANSPORTA-TION (3) Consideration of organization and administration of state, county, and district pupil transportation service with emphasis on safety and economy. Selection and training of drivers, route planning, maintenance mechanics, bus specifications, and procurement are included. Prerequisite: 15 credits in approved Safety and Driver Education courses and/or approval of Director. (G)
- 28.440 (0836.440) ADVANCED PUPIL TRANSPORTATION (3) Consideration of the problems of school bus transportation, solutions employed, and a review of research and techniques in this field. Workshop approach utilized. Prerequisite: 15 credits in approved Safety and Driver Education courses and/or approval of Director. (G)
- 28.441 (0836.441) ADMINISTRATION AND SU-PERVISION OF SAFETY EDUCATION (3) Background and experience in administration and supervision of Safety education pro-

- grams, K-12. Methods, techniques, materials, program planning, records and reports, financing and insurance. Prerequisite: 15 credits in approved Safety and Driver Education courses and/or approval of Director. (G).
- 28.442 (0836.442) ADMINISTRATION AND SU-PERVISION OF DRIVER EDUCATION (3) Background and experience in administration and supervision of Driver Education programs. Methods of organization, techniques, materials, program planning, records and reports, financing and insurance, procurement, personnel selection, planning classroom and in-car laboratory experiences are included. Prerequisite: 15 credits in approved Safety and Driver Education courses and/or approval of Director. (G)
- 28.443 (0836.443) PROBLEMS IN SAFETY AND DRIVER EDUCATION (3) Consideration of the individual problems encountered in the teaching of driver and safety education. The psychology of teaching and learning are emphasized and consideration is given to the implications of emotional and attitudinal factors in driver and traffic education. Prerequisite: 15 credits in approved Safety and Driver Education courses and/or approval of Director. (G)
- 28.444 (0836.444) FIELD STUDIES IN SAFETY AND DRIVER EDUCATION (1-4) Designed to meet the needs of persons in the field with respect to research projects in special areas. Includes examination of existing courses of study, current trends, current research, evaluation, supervision, and techniques. Students will be expected to carry out a special field project in their area of interest. May be taken more than once, but not to accumulate more than 4 credits. Prerequisite: 15 credits in approved Safety and Driver Education courses and/or approval of Director. (G)
- 28.445, 446 (0836.445, 446) CURRICULUM DE-VELOPMENT IN SAFETY AND DRIVER EDU-CATION I, II (3, 3) History of curriculum development in safety and driver education; principles; philosophies; objectives; current practices; evaluation techniques; laboratory experience; and field study. Prerequisite: 15 credits in approved Safety and Driver Education Courses and/or approval of Director. (G)

# General Studies in Education Major

The Major in General Studies in Education permits highly individualized programs or thematic options described in terms of the students' recognized needs and the requirements of positions for which they hope to prepare. (Eg., one such emphasis has been developed in Library Media Education.) Inquiries should be made to the Director of Professional Programs, Division of Education. The following guidelines must be followed:

<sup>(</sup>G) May be available for graduate credit.

- A. The student must achieve a 2.0+ C.P.A. and must declare the major by submitting a plan of study no later than the first semester of the junior year. This plan of study must be approved by the student's Education advisor and the Associate Dean of Education.
- B. The student must satisfy the General Education Requirements of the College (38-45 hrs.) and a minimum of 128 hrs. for graduation.
- C. The student must complete 40 or more additional hours in liberal Arts and Sciences courses from Art, Biology, Chemistry, English, Geography, Health, History, Modern Languages, Mathematics, Music, Philosophy, Physics, Psychology, Sociology, or Theatre. These hours must include work from a minimum of four different departments and be approximately balanced between the arts and the sciences (physical or social). A rationale for the selection of these courses must be followed.
- D. The student must also include in his program a professional component of approved professional courses planned to prepare him for a specialty. This component must be designed with appropriate competencies in an area of expertise chosen by the student. This part of his program must consist of at least 80% upper-division courses and center around a "core" specialty which leads to professional certification or expertise in an Education-related occupation.

# Library Media Education Programs

Certification standards are changing. These possibilities are being developed and subject to confirmation:

1. "Minor" Program: State certification for the position of school librarian (Education Media Associate Level I) may be obtained by completing one of the majors in teacher education plus an additional eighteen semester hours of Library Media Education as a "minor" elective.

28.255; 28.451; 28.453; 28.359; either 28.455, or 28.461; and 28.460.

- 2. Major Program: The General Studies in Education Major provides for a thematic option in Library Media Education which is designed to prepare students for certification as school librarian (Education Media Associate Level I). Students interested should inquire in Division of Education before taking any courses.
- 3. Graduate Study: Students who have bachelor's degree and wish to prepare for an advanced certification in school librarianship (Education Media Generalist, Level II) should consult the Education Coordinator in the graduate office before taking courses.

COMMENCING WITH THE 1976-77 ACADEMIC YEAR, THE CURRENT ALPHABETICAL DESIGNATION "EDPM" (LIBRARY SCIENCE) WILL BE REPLACED BY A NUMERIC CODE OF 1601.

- 13.302 METHODS AND MATERIALS IN INSTRUCTIONAL MEDIA (3) Stressed are the skills used in the preparation and production of selected types of sensory materials of instruction. Various methods and techniques are also employed to demonstrate how these materials can be utilized effectively in instructional communications. (Recommended; required unless 13.485 is taken)
- 13.415 METHODS AND MATERIALS IN NEW EDUCATIONAL MEDIA (3 or 4) Methods of instruction through media such as television, motion pictures, audio and video recordings, transparencies, field trips, slides, etc., are emphasized. The communications process is stressed throughout as are the selec-

tion, source locations, utilization, and evaluation of equipment, devices and materials. Students are required to demonstrate competencies in the operation of basic devices for instruction. Lab fee \$5.00.

13.485 SEMINAR WORKSHOP IN INSTRUCTION-AL TECHNOLOGY (3) Special problems in instructional technology are treated. Included are the philosophy, scope, planning, and techniques of the preparation and production of selected types of photographic and related graphic materials. Computer assisted instruction, random access and information and retrieval systems, simulators and trainers as well as significant developments in hardware and software are stressed. Interna-

- tional aspects are also included. Field trips are part of the class experience. Lab fee \$5.00. Prerequisite: Three hours of audiovisual communication courses at the 400 level or above, or departmental approval. (Recommended; required if 13.302 is not taken)
- 28.255 (1601.255) INTRODUCTION TO MODERN LIBRARIANSHIP (3) Designed to orient the student in the field of library service. The historical development of librarianship generally and school librarianship in particular. The professional status of the librarian, kinds of libraries, cooperation and planning, current trends. Field work designed to give the student exposure to the needs of the media programs in the schools. (Interdisciplinary with Audiovisual Communications Department) Recommended but not required.
- 28.359 (1601.359) PRINCIPLES OF SELECTION AND EVALUATION OF CURRICULUM MA-TERIALS FOR SCHOOL LIBRARIANS (3) A practical approach to the selection of materials related to the school curriculum (K-12). The use of print and non-print materials to develop units of study at various grade levels. Readings in current literature. Observation and participation in a school media center.
- 28.451 (1601.451) REFERENCE MATERIALS FOR SCHOOL LIBRARIANS (3) A study of fundamental reference sources, bibliographic methods and searching techniques, the philosophy and administrative aspects of reference work. Practice in the use of reference sources, analysis of reference questions and the preparation of a subject bibliography. (G)
- 28.453 (1601.453) PRINCIPLES OF CATALOGING FOR SCHOOL MEDIA CENTERS (3) Cataloging, subject analysis, classification and bibliographic control. The use of commercial processing services and central processing in the school systems. The development of the picture file, the vertical file, and a unified catalog that reflect both print and non-print materials for the media center.
- 28.456 (1601.456) STORYTELLING (3) The selection and presentation of stories for children. A study of sources for the storyteller in folklore, myth, legend, poetry, and the writings of storytellers. Development of skills in storytelling. Prerequisite: 29.417 Children's Literature or consent of instructor. (Not required for the major).
- 28.459 (1601.459) ADMINISTRATION AND SERV-ICES OF MEDIA CENTERS FOR SCHOOL LIBRARIANS (3) The organization of the school library for effective service to community, faculty, and students: emphasis on the library as a media center and the changing role of the librarian in today's educa-

- tion. The preparation of a handbook, a projected budget, library plans, and general business procedures. Field trips to school libraries, and media centers. (Should be taken in the semester prior to the practicum) (G)
- 28.460 (1601.460) METHODS OF LIBRARY ME-DIA EDUCATION IN THE ELEMENTARY SCHOOL (2) The evaluation of the school library-media center's function and services in curriculum work with teachers and students. Methods of preparing the librarymedia center program and of teaching usage. (To be taken with 28.462 Practicum: Library Media Education in the Elementary School) Prerequisites: 28.359 Principles of Selection and Evaluation of Curriculum Materials; Admission by consent of department.
- 28.461 (1601.461) METHODS OF LIBRARY ME-DIA EDUCATION IN THE SECONDARY SCHOOL (2) The evaluation of the school library-media center's functions and services in curriculum work with teachers and students. Methods of preparing the library-media center program and of teaching usage. (To be taken with 28.463 Practicum: Library-Media Education in the Secondary School) Prerequisites: 28.359 Principles of Selection and Evaluation of Curriculum Materials; Admission by consent of department.
- 28.462 (1601.462) PRACTICUM: LIBRARY MEDIA EDUCATION IN THE ELEMENTARY SCHOOL (6) Supervised library media center practice in an elementary or middle school. Intended to be taken in one-half of a semester with 28.460 Methods of Library-Media Education in the Elementary School. (Admission by consent of department)
- 28.463 (1601.463) PRACTICUM: LIBRARY MEDIA EDUCATION IN THE SECONDARY SCHOOL (6) Supervised library media center practice in a secondary program. Intended to be taken in one-half of a semester with 28.461 Methods of Library Media Education in the Secondary School. (Admission by consent of department)
- 29.417 (1801.417) CHILDREN'S LITERATURE (3) Study of the world of literature for children through wide independent reading as well as examination of nonprint materials. Criteria and aids for selection. Attention to authors, illustrators, awards and citations. The importance of literature in the curriculum and in the lives of children. (G)
- 29.418 (1801.418) YOUNG ADULT LITERATURE (3) Examination of literature as an expression of basic needs and ideas of youth through wide independent reading; studying criteria and aids for selection of books and other media; evaluating in terms of forces affecting society and the adolescent. (G)

<sup>(</sup>G) May be available for graduate credit.

# SUGGESTED SEQUENCE OF COURSES FOR UNDERGRADUATE GENERAL STUDIES IN EDUCATION MAJORS WITH SPECIALIZATION IN LIBRARY MEDIA EDUCATION

First Semester			Second Semester		
		FRESHMAN			
	General Studies		General Studies		
	Electives		Electives		
	S	OPHOMORE			
	General Studies	28.255	Introduction to Modern Librarianship		
	Electives		(field experience)		
70.101	General Psychology		Electives		
		JUNIOR			
70.201	Educational Psychology	70.203	Human Growth & Development		
28.451	(355) Reference Materials for School Librarians	28.453	(357) Principles of Cataloging for School Media Centers		
28.359	Principles of Selection and Evaluation	29.417	Children's Literature		
	of Curriculum Materials for School	13.415	Methods and Materials in New		
	Librarians (field experience)		Educational Media (field work)		
	Electives		Electives		
		SENIOR			
28.459	Administration and Services of Media Centers for School Librarians (field	28.460	Methods of Library Media Education in the Elementary School (field)		
29.418	experiences) Young Adult Literature	28.462	Practicum: Library Media Education in the Elementary School (field experience)		
27.319 13.302	Survey of Educational Programs Methods of Materials in New	28.461	Methods of Library Media Education in Secondary School (field experience)		
10.002	Instructional Media Electives	28.463	Practicum: Library Media Education in the Secondary School (field)		

# Special Education Courses

COMMENCING WITH THE 1976-77 ACADEMIC YEAR, THE CURRENT ALPHABETICAL DESIGNATION "EDPM" (SPECIAL EDUCATION) WILL BE REPLACED BY A NUMERIC CODE OF 0808.

28.481 (0808.481) METHODS AND MATERIALS FOR TEACHING THE VISUALLY IMPAIRED (3) A course designed to examine recognized methods, materials, and programs for teaching children who are visually impaired. Included is the opportunity for students to select appropriate content and projects to meet unique interests and needs. Prerequisites: 70.101 and 70.201 and 28.483 or consent of instructor.

28.483 (0808.483) BRAILLE READING AND WRIT-ING (3) Course deals with reading and writing of braille. Additional individual project required of students taking course for graduate credit. Prerequisites: 70.101, 70.201 and consent of instructor. (G)

# Speech Pathology and Audiology

A program to meet certification requirements as a speech and hearing clinician in the Public Schools is offered by the Speech Department. A major (B.S.) consists of a minimum of 36 credits from the major field plus 18 credits from related subjects.

Courses Required in Major Subjects are: 87.105 Speech and Language Development; 87.302, 304,306 Speech Pathology I & II & III; 87.241 Introduction to Audiology; 84.310 Phonetics of American English; 84.402 Speech Science; 87.487 Clinical Practice in Speech Correction; 87.488 Clinical Practice in the Public Schools; and 87.305 Stuttering: Etiology and Therapy.

At least six semester hours must be selected from the following: 84.106 Voice and Diction; 84.213 General Semantics; 87.401 Clinical Audiology; 87.407 Speech Reading and Auditory Rehabilitation; 87.489 Clinical Counseling in Audi-

<sup>(</sup>G) May be available for graduate credit. See Graduate Bulletin.

ology and Speech Pathology; and 87.404 Professional Program, Problems, and Relationships.

Courses in Related Subjects must total at least 18 semester hours in psychology and education courses. The education courses selected are limited to 9 hours and must include either "Foundations of Education" or "Survey of Educational Programs."

#### OTHER EDUCATION COURSES

COMMENCING WITH THE 1976-77 ACADEMIC YEAR, THE CURRENT ALPHABETICAL DESIGNATION "EDGU" (GENERAL) WILL BE REPLACED BY A NUMERIC CODE OF 0801.

### (Courses available to students in more than one Education Program)

- 29.101 (0801.101) CAREERS IN EDUCATION (2) Guided field experiences, designed to help students expand their knowledge of careers in education as a basis for choosing a major emphasis. Examination of careers in education and the scope of education in a democracy.
- 29.315 (0801.315) EDUCATIONAL MEASURE-MENT FOR CLASSROOM TEACHERS (2) Problems in measurement; principles underlying choice of test instruments; survey of test literature; dealing with test data; constellation and interpretation of test. Prerequisites: Jr. standing and Ed. Psychology.
- 29.325 (0801.325) FIELD EXPERIENCES: EDU-CATION IN INFORMAL SETTINGS (1-3) Studying and/or working with children in non-classroom settings such as camps, recreational centers, or field trips. Individual plans of study and evaluation will be developed with the instructor. Prerequisite: Consent of instructor.
- 29.401 (0801.401) FOUNDATIONS OF EDUCATION (2-3) Sociological, philosophical, psychological and historical foundations of
  western education. Perspectives in these
  areas as they relate to current educational
  issues and practices. Three semester hours
  credit upon consent of department chairman.
  Prerequisite: Student teaching and consent
  of Chairman, Department of Secondary Education. (G)
- 29.402 (0801.402) HISTORY OF EDUCATION (3)
  Major developments, personalities, and
  movements in the evolution of education. (G)
- 29.403 (0801.403) COMPARATIVE EDUCATION
  (3) A study of patterns of education in different cultural settings with implications for the student of American education. Emphasis on cross-cultural, political, economic and social aspects of education. Prerequisite: Foundations of Education or equivalent. (G)
- 29.405 (0801.405) PHILOSOPHY OF EDUCATION
  (3) Philosophic dimensions of the teaching learning process, as discriminated and discussed by major philosophers and educational philosophers. (G)
- 29.406 (0801.406) RECENT TRENDS IN TEACH-ING (3) Emerging concepts of teaching and organization for instruction. Prerequisite:

- Student teaching or senior standing with consent of instructor. (G)
- 29.407 (0801.407) CONTEMPORARY ISSUES IN EDUCATION (3) Seminar approach to current issues in education. Prerequisite: Student teaching or senior standing with consent of instructor. (G)
- 54.408 ORGANIZATION AND ADMINISTRATION OF MUSIC EDUCATION (See Music Department Listings.)
- 29.409 (0801.409) FIELD STUDIES OF THE CHILD AND HIS COMMUNITY (2) Planning and working with groups of children in approved social agencies or making extensive studies of recreational and non-recreational social agencies. Class discussions and field trips. (G)
- 29.411 (0801.411) OPEN-SPACE SCHOOLS: PHI-LOSOPHY AND PRACTICE (3) Philosophy and operation of open-space schools, planning, management and evaluation. Emphasis on cognitive development. Prerequisite: Teaching experience. (G)
- 29.412 (0801.412) OPEN EDUCATION: INTERPER-SONAL RELATIONS (3) Interaction in team teaching. Human Relations skill development for adults and children. Emphasis on affective domain. Prerequisite: Teaching experience and 29.411. (G)
- 29.414 (0801.414) EDUCATIONAL TESTS AND MEASUREMENTS (3) Problems in measurement; principles underlying choice of test instruments, survey of test literature; dealing with test data; constellation and interpretation of tests. Not open to those who have had EDUC 29.315 (28.315). (G)
- 29.415 (0801.415) EDUCATIONAL STATISTICS (3)
  Designed as a practical course in statistics for the student in education. Emphasis is upon educational applications of descriptive statistics, including central tendency, variability, and association. Prerequisite: 50.204, 50.205 or equivalent. (G)
- 29.417 (0801.417) CHILDREN'S LITERATURE (3)
  Study of the world of literature for children
  through wide independent reading as well as
  examination of non-print materials. Criteria

<sup>(</sup>G) May be available for graduate credit. See Graduate Bulletin.

- and aids for selection. Attention to authors, illustrators, awards and citations. The importance of literature in the curriculum and in the lives of children. (G)
- 29.418 (1801.418) YOUNG ADULT LITERATURE
  (3) examination of literature as an expression of basic needs and ideas of youth through wide independent reading; studying criteria and aids for selection of books and other media; evaluating in terms of forces affecting society and the adolescent.
  (G)
- 29.425 (0801.425) CORRECTIVE READING (2-6)
  The psychology of reading; methods, principles, techniques, and materials for the classroom teacher in meeting a typical learning patterns. Experience in a practicum situation involving the development of skill in analysis and correction of reading disabilities. Prerequisite: 26.497 and 26.429 or 26.427 or consent of instructor. (G)
- 29.431 (0801.431) THE SCHOOL CURRICULUM
  (3) An examination of curriculum patterns
  and practices; includes sociological, philosophical and psychological factors which
  shape the curriculum. Prerequisites: Student
  teaching or professional experience in education. (G)
- 29.433 (0801.433) THE NON-GRADED CURRICU-LUM (3) Study and analysis of the nongraded approach to curriculum organization; focus on rationale, principles and models of continuous-progress curricular programs in elementary and secondary schools. Prerequisites: Student teaching or professional experience in education. (G)
- 29.445 (0801.445) HUMAN RELATIONS INSTITUTE ON INTERGROUP EDUCATION I: THE INDIVIDUAL (3) Consideration will be given to: understanding one's self, the nature of prejudice, and environmental factors which influence minority groups and cultures, and relationship of these factors to the development of meaningful educational programs. Prerequisite: For undergraduates: student teaching, and at least one course each in sociology and psychology. For graduates: teaching experience, or certification. (G)
- 29.446 (0801.446) HUMAN RELATIONS INSTITUTE ON INTERGROUP EDUCATION II: THE COMMUNITY (3) Consideration of political, economic, social, and educational factors as they affect minority cultures and implications for school and college programs. Prerequisite: For undergraduates: student teaching and at least one course each in sociology and psychology. For graduates: teaching experience or certification. (G)
- 29.449 (0801.449) CITIZENSHIP EDUCATION IN THE SCHOOL (3) The development and implementation of activities for citizenship education in the school: philosophy, concepts, principles, techniques and resources for teacher and administrator. Prerequisite: Teaching experience, 29.401, and 78.375 or equivalents, consent of instructor. (G)

- 29.451 (0801.451) GUIDANCE IN THE PUBLIC SCHOOL (2-3) Scope and function of a guidance program; the role of the classroom teacher in guidance. (G)
- 29.453 (0801.453) SUPERVISORY PRACTICES IN TEACHER EDUCATION (3) Experiences and study in developing particular skills and competencies for supervising quality laboratory/field experiences. Content is designed for supervising teachers, team leaders, and resource personnel. Prerequisite: Teaching experience. Graduates count this as a workshop elective. (G)
- 29.455 (0801.455) INTRODUCTION TO CAREER DEVELOPMENT EDUCATION: THEORY AND PRACTICE (3) Recent trends in career development programs K-12: examining presently operating career programs; evaluating existing career materials; assessing attitudes toward work and the elements of career choice. Prerequisite: Undergraduate: 6 hours of psychology and senior standing; Graduate: Bachelor's degree or equivalent. (G)
- 29.461 (0801.461) LANGUAGE AND THE URBAN CHILD (3) Language theory in reference to psychological, sociological, and cultural effects in the classroom will be studied. Special emphasis will be given to the analysis of dialects and "standard" and "non-standard" speech patterns as well as practical classroom applications. Prerequisite: Teaching or student teaching experience or consent of instructor. (G)
- 29.467 (0801.467) TEAM TEACHING WORKSHOP (3) Conducted to assist teachers who are actively engaged in team teaching or will be participating as members of a team in the future. (G)
- 76.488 (0834.488) A EROSPACE EDUCATION WORKSHOP (3) In cooperation with CAP, USAF, and NASA. A fund of general knowledge about aviation and space exploration. Teaching materials, resources, and field experiences. Usually a week-end at Florida's Cape Kennedy Space Center and other daylong tours, TBA. For K-12 teachers, supervisors, and administrators and students of teaching. LAB FEE \$15 which includes travel charges. 3 weeks. Summers only. (G)
- 29.494 (0801.494) TRAVEL AND STUDY EDUCA-TION: (PROJECT TO BE NAMED) (1-6) Study abroad of educational facilities, programs or practices, or selected projects in educational topics. By special arrangement with program chairman and sponsoring instructors. Consent of graduate program coordinator required for graduate degree credit. (G)
- 29.495 (0801.495) INDEPENDENT STUDY IN EDU-CATION: (PROJECT TO BE NAMED) (1-4) An opportunity for especially qualified students to undertake research problems or

<sup>(</sup>G) May be available for graduate credit. See Graduate Bulletin.

study projects relevant to their interest and training under the direction of a staff member. Prerequisite: approval of appropriate program chairman. Graduate credit by consent of graduate program coordinator only.

29.496 (0801.496) DIRECTED READINGS IN ED-

UCATION (1-4) Independent reading in selected areas of Education, in order to provide for the individual a comprehensive coverage or to meet special needs. By invitation of the Department to major students. Graduate credit by consent of graduate program coordinator only.

### Graduate Only

- 12.595 RESEARCH IN ART AND ART EDUCA-TION (3) (See Art Dept. Listings.) (G)
- 12.697 SEMINAR IN ART EDUCATION (3) (See Art Dept. Listings.) (G)
- 54.501 CURRENT TRENDS IN MUSIC AND MU-SIC EDUCATION (See Music Dept. Listings.)
- 54.595 RESEARCH METHODS IN MUSIC AND MUSIC EDUCATION (See Music Dept. Listings.)
- 50.525 SEMINAR IN MATH EDUCATION (See Math Dept. Listings.)
- 29.501 (0801.501) EDUCATIONAL IDEAS IN HIS-TORICAL PERSPECTIVE (3) Current trends and issues in education as reflecting and influencing the social, economic, and political forces in our cultural heritage. Prerequisite: 29.401, 402, or 405.
- 29.507 (0801.507) HOME, SCHOOL, COMMUNITY (3) The interaction between home and school and community in educational programs; survey and evaluation of techniques for working with parents; study of various agencies contributing to the education and well-being of children and youth at home and at school. Prerequisite: A course in Sociology and consent of Department of Education.
- 29.511 (0801.511) SUPERVISION OF STUDENT TEACHING (3) An analysis of the roles of the cooperating teacher, college supervisor, and student teacher; current practices, issues, problems, trends and evaluation in laboratory experiences, current research. Prerequisite: Teaching experience.
- 29.517 (0801.517) SCHOOL LAW (3) A study of the legal framework within which the public and non-public schools function. The course will give attention to the legal relationships among federal, state, and local governments; the legal status of school districts, boards of education, and school administrators; the legal status of non-public schools; and the law regarding all facets of the school program, staff, and pupils. Prerequisite: 29.501.
- 29.549 (0801.549) AMERICAN POLITICS AND ED-UCATION (3) The American political structure and its relation to policy making and administration of public education. Topics include educational opportunity, community responsibility and control, accountability, role of the courts, church-state relations, academic freedom. Prerequisite: Education

- 29.401 Foundations of Education and Political Science 68.103 or equivalent.
- 29.550 (0801.550) ANALYSIS AND MODIFICA-TION OF TEACHING BEHAVIOR (3) The analysis of teaching learning situations to aid the advanced teacher education students to develop, refine and prescribe skills and strategies and field work. Prerequisites: Teaching experience, supervisory experience, 29.471 and/or 29.511.
- 29.585 (0801.585) INTERDISCIPLINARY SEMINAR IN PHILOSOPHY AND EDUCATION (3) An interdisciplinary seminar with two apects: (1) current thought in the philosophy of a variety of academic fields. (2) Their implications for the broad field of education. Concentration will be upon development in the present century.
- 29.595 (0801.595) INDIVIDUALIZED STUDY (3-6) Individually planned programs which will permit students to engage in research and/ or field experiences relative to his professional growth. Prerequisites: Admission by application to the Graduate Program Coordinator, only.
- 29.601 (0801.601) REPRESENTATIVE AMERICAN EDUCATORS (3) A biographical approach to the development of American Education through selected group of American educators whose contributions have significantly shaped its form and substance from the colonial period to the present. Prerequisite: 29.401 Foundations of Education or equiva-
- 29.607 (0801.607) SEMINAR IN EDUCATIONAL CLASSICS I: ANCIENT PERIOD THROUGH THE RENAISSANCE (3) An in-depth study of the classical works of selected authors. Concentration on liberalizing and humanizing influences. A seminar paper will be developed by each student. Prerequisites: Foundations of Education, or History of Education, or Educational Ideas in Historical Perspective.
- 29.609 (0801.609) SEMINAR IN EDUCATIONAL CLASSICS II RENAISSANCE TO THE PRES-ENT (3) An in-depth study of the classical works of selected authors. Concentration on liberalizing and humanistic influences. Prerequisites: Foundations of Education, or History of Education or Educational Ideas in Historical Perspective.

<sup>(</sup>G) May be available for graduate credit. See Graduate Bulletin.

- 29.621 (0801.621) READING DISABILITIES (3) The content of this course includes the following: causes of reading disabilities; observation and interview procedures; standard and informal tests; report writing; diagnosis and correction of reading disabilities. Prerequisite: One undergraduate course in the teaching of reading.
- 29.623 (0801.623) METHODS AND MATERIALS IN TEACHING READING IN THE ELEMEN-TARY SCHOOL (3) Covers trends in methods, materials, and individualized reading designs essential to the organization and administration of a functional reading program. Prerequisite: One undergraduate course in the teaching of reading.
- 29.625 (0801.625) CLINIC PRACTICUM IN READ-ING (3) A clinical or laboratory experience. Students diagnose and treat reading disability cases under the supervision of the directors of the reading program. Prerequisite: 29.621 and 29.623.
- 29.627 (0801.627) EVALUATION OF READING RE-SEARCH (3) The student will be exposed to the tools of research and experimentation. The emphasis will be on past and present research relevant to reading. Prerequisite: Course in Tests and Measurement or Statistics and consent of instructor.
- 29.629 (0801.629) SEMINAR IN READING (3) An advanced course to familiarize the student with interdisciplinary aspects of the reading

- process. The highlight of the course will be the team teaching aspect. Consultants such as psychologists, pediatricians, optometrists, guidance teachers, etc. will play an important role in this course. Prerequisite: 29.621 and 29.623.
- 29.631 (0801.631) DIAGNOSIS AND EVALUATION OF READING DISABILITIES (3) Emphasis on the practical uses of standardized and non-standardized instruments and procedures for evaluating reading disabilities. Prerequisites: 29.621 Reading Disabilities
- (0801.691) INTRODUCTION TO SEARCH IN EDUCATION (3) Research as a method for solving problems. Contributions of research to education. Prerequisite: Undegraduate course in Tests and Measurements, or Elementary Statistics, or consent or instructor.
- 29.699 (0801.699) MASTER EDUCATION THESIS (3) Carefully executed investigation and accurate recording of a specific problem selected with reference to the student's professional goals and resources. Historical, descriptive, experimental, or action research can provide a single or multiple framework within which the student may work. Includes an outline of the proposed thesis submitted for inspection and approval by the Graduate Studies Committee, an application of techniques derived from the research course, and the guidance of Research Adviser.



# English

Professors: BEVINS, CRAVER (Co-Chair), GUESS, HEDGES, HENRY, HUGHES, JONES (Co-Chair), LEWIS, PLANTE, SHEETS, THEARLE

Associate Professors: COULTER, DOUGLAS, FLOWER, FRIEDMAN, HANSON, HATCHER, HILL, KOOMJOHN

Assistant Professors: AVERY, CONNOLLY, DOWLING, ECONOMOU, FRANKEL, HAHN, WILKOTZ, WOLKOWITZ, WOOD

Instructor: THOMAS

Every student in the College must complete 30.102 or 30.104 (with a grade of C or better) and one semester (3 credit hours) of a lower-division course in English, American, World Literature, Ideas in Literature, Black American Literature, or Themes in American Literature: 30.201, 202, 204, 205, 211, 212, 213, 251, 252, or 272. A student may offer a third course in English in partial fulfillment of the General Education Requirements of the College. The student may, of course, take additional elective credits in English.

The English Department participates in the Advanced Placement Programs of the College. A selected number of entering freshmen are placed in 30.104 rather than in 30.102. It also offers credit for most courses through the Credit for Previous Learning or Experience Program. Students applying for credit under the program complete an examination, an interview, and a paper in the area.

# English Course Prerequisites

30.102 or 30.104 is prerequisite to all other English courses. The second course will be one of the following: 30.201, 30.202, 30.204, 30.205, 30.211, 30.212, 30.213, 30.251, 30.252 or 272. Concurrently with these courses, a student may take any lower-division (200-level) elective in English. Two lower-division English courses, including 30.102 or 30.104, are prerequisite to registration for most upper-division (300-400 level) English courses (exceptions are noted in the course descriptions below).

# English Major

To satisfy the requirements for the major a student must complete 36 semester hours of work in the departmental offerings in language, composition, and literature.

The 36 hours will include either 30.102 or 30.104, 30.204-30.205, 30.233. Additional hours of lower-division work may be counted toward a major; however, 21 of the minimum 36 hours must be in upper-division (300-400 level) courses.

Upper-division courses must include 30.351 Approaches to English Study.

At least one course must be in Language or Literary Criticism: 30.325 Historial Linguistics; 30.327 Structural Linguistics; 30.329 History of American English; 30.332 Comparative Grammar; 30.430 History of the English Language; 30.431 Structure of the English Language; 30.405 Literary Criticism I.

A student must elect at least one course in two of the following groups:

Group A: Beginnings of English Literature to 1700 — 30.302 The English Renaissance; 30.303 Seventeenth Century English Prose and Poetry; 30.319 English Medieval and Renaissance Drama; 30.340 Medieval Literature.

Group B: 1700-1832 — 30.320 English Drama from the Restoration to Shaw; 30.335 Literature of the English Romantic Period; 30.345 Eighteenth Century English Prose and Poetry; 30.422 Development of the English Novel I; 30.427 Literature of the American Romantic Period.

Group C: 1832-1900 — 30.337 Victorian Prose and Poetry I; 30.338 Victorian Prose and Poetry II; 30.423 Development of the English Novel II; 30.445 Nineteenth-Century American Novel; 30.447 American Poetry Through Frost; 30.429 Literature of the American Realistic Period.

One course must be selected from the Major Figure offerings: 30.410 Chaucer; 30.412 Milton; 30.415 Shakespeare (Comedies); 30.416 (Tragedies).

The student must take at least one upper-division course in American Literature.

Majors must register with the Department and are urged to consult with their advisers each pre-registration period. In addition, the Department strongly recommends that majors who plan to enter graduate studies complete at least the intermediate level of a foreign language.

# Teacher Education Program for English Majors

The Education Department requires that a student preparing to teach English take either 30.332 Comparative Grammar or 30.431 Structure of the English Language. It strongly recommends in addition either 30.327 Structural Linguistics or 30.430 History of the English Language. Further recommendations are 30.226 Introduction to Classical Mythology, 30.331 Advanced Composition, 30.261 Ethnic Lit., and either 30.251-52 or 30.401, Black Literature. Students in the Teacher Education Program must register with both the English and Education Departments and will be assigned an adviser by each.

# Concentration in Writing for English Majors

The Concentration in Writing for English Majors is a specialized program designed to serve the growing need for competent writers in business, government, and industry.

To satisfy the requirements for the Writing Concentration, a student must complete 36 semester hours of work in the departmental offerings in language, composition, and literature.

Lower-division Requirements.

The student must complete 30.102 or 30.104, 30.204, and 30.205. Additional hours of lower-division work (100-200 level courses) may be counted toward the major; however, 21 of the minimum 36 hours must be in upper-division (300-400 level) courses.

Upper-division Requirements.

At least one course must be selected from offerings in Language, Literary Criticism, or Major Figures: 30.325 Historical Linguistics, 30.327 Structural Linguistics, 30.329 History of American English, 30.332 Comparative Grammar, 30.420 History of the English Language, 30.431 Structure of the English Language, 30.405 Literary Criticism I, 30.410 Chaucer, 30.412 Milton, 30.415 Shakespeare (Comedies), 30.416 Shakespeare (Tragedies).

A student must elect at least one course in two of the following groups:

Group A: Beginnings of English Literature to 1700 — 30.302 The English Renaissance, 30.303 Seventeenth Century English Prose and Poetry, 30.319 English Medieval and Renaissance Drama, 30.340 Medieval Literature.

Group B: 1700-1832 — 30.320 English Drama from the Restoration to Shaw, 30.335 Literature of the English Romantic Period, 30.345 Eighteenth Century English Prose and Poetry, 30.427 Literature of the American Romantic Period.

Group C: 1832-1900 — 30.337 Victorian Prose and Poetry I, 30.338 Victorian Prose and Poetry II, 30.423 Development of the English Novel II, 30.428

Literature of the American Realistic Period, 30.445 Nineteenth-Century American Novel, 30.447 American Poetry through Frost.

The student must elect at least four upper-division writing courses from the following: 30.331 Advanced Composition, 30.333 Writing for Business and Industry, 30.334 Advanced Informational Writing, 30.380 Creativity and Style in Writing Non-Fiction, 30.383 Imaginative Writing, 30.437 British and American Prose, 30.470 Topics in Writing.

# English Minor

The Minor provides an individually tailored program of electives in literature, writing, or linguistics.

#### Requirements.

To minor in English a student must register with the English office, plan a minor program with an advisor, and complete 24 semester hours in the following distribution: 30.102 or 30.104, six hours at the 200-level, six hours in upper- or lower-division course offerings, and nine hours in the upper division. Apart from Freshman Composition, 30.102 or 30.104, no specific courses, or block of courses, are stipulated. The one additional requirement is that students must work with departmental advisors to design programs which, while individually tailored, will be coherent and purposeful. The transfer student registering as an English Minor must complete a minimum of 12 hours of English at Towson.

#### World Literature Minor

Twenty-four semester hours of prescribed work are required for a Minor in World Literature. Of these, up to twelve may be lower-division courses.

#### Requirements.

The student must complete six hours on the lower-division: 30.102 or 30.104, and 30.201 or 30.202.

The student must elect two of the following upper-division courses (6 hours): 30.301, 30.312, 30.313, 30.321, 30.323, 30.326, 30.328, 30.405, 30.407, 30.408, 30.409, or 30.527.

#### Electives.

The student may elect up to 6 hours from the following lower-division courses:

English, 30.210, 30.213, 30.226, 30.235, 30.237; Modern Language, 32.202 (fourth semester); History, 40.262, 40.263, or 40.264

Up to twelve hours of upper-division English may be offered; up to six hours of upper-division non-English may be offered from the following:

English 30.301, 30.312, 30.313, 30.321, 30.323, 30.326, 30.328, 30.405, 30.407, 30.408, 30.409, 30.527; Modern Language, any upper division literature course. History, any course directly related to the student's major and approved for credit towards the Minor in World Literature by the World Literature and Linguisics Division Chair. (Only one three-credit course in History may be offered to fulfill requirements for the Minor.) Philosophy. Art, etc., any course directly related to a student's major and approved for credit towards the Minor in World Literature by the World Literature and Linguistics Chair (e.g., an Italian major may offer a course in Renaissance Art).

# Honors in English, Dual Major, and Graduate Program

The English Department participates in the College Honors Program. Students interested in completing an English Major with Honors should consult no later than first semester of the Junior year with one of the Department Co-Chairs.

Students who major in one of the other programs of the College, yet retain

a strong avocation or interest in Language, Literature, or Writing, are urged to explore with one of the Department Co-Chairs the possibility of completing a dual major.

The Department now supports a post-baccalauerate degree, the Master of Education in Secondary Education with Specialization in English (See *Graduate Bulletin* for description of requirements).

### ENGLISH COURSES (ENGL)

COMMENCING WITH THE 1976-77 ACADEMIC YEAR, THE CURRENT ALPHABETICAL DESIGNATION "ENGL" WILL BE REPLACED BY A NUMERIC CODE OF 1501.

#### Lower Division - Undergraduate

- 33.101 (490.101) SENTENCE SENSE: GRAMMAR FOR COLLEGE COMPOSITION (1) Intensive work in the grammar and mechanics of the language. While major attention is focused upon elements of the sentence and sentence structure, extensive time is directed also to some of the major problems in syntax and structure. Does not fulfill general education requirements.
- 30.102 (1501.102) FRESHMAN COMPOSITION (3) Review of grammar, writing of compositions, and reading of various forms of literature.
- 30.104 (1501.104) ADVANCED FRESHMAN ENG-LISH (3) Readings in expository and imaginative literature, short compositions, and research experience. Open only to freshmen selected by the English Department on the basis of superior high school records and aptitude test scores; for them 30.104 replaces 30.102.
- 30.201-30.202 (1501.201-1501.202) READINGS IN WORLD LITERATURE I, II (3, 3) First Semester European writings in translation from the time of Homer to the Renaissance; second semester European writings in translation from the Renaissance to 1900.
- 30.204-30.205 (1501.204-1501.205) ENGLISH LIT-ERATURE I, II (3, 3) First semester — the Middle Ages through the Neoclassical Age; second semester — the Romantics through the moderns.
- 30.210 (1501.210) INTRODUCTION TO FOLK-LORE (3) A study stressing those aspects of folklore relevant to literature. Emphasis on the various forms and materials of folk narrative (fairy tale, legend, etc.) English, Irish, and American tales are usually studied; other countries considered may vary. Topics such as ethnic folklore, proverbs, superstitions, and folklore archaeology are included according to student interest.
- 30.211-30.212 (1501.211-1501.212) AMERICAN LITERATURE I, II (3, 3) First semester Major writers from the Colonial Period to the Civil War; second semester Major writers since the Civil War.
- 30.213 (1501.213) IDEAS IN LITERATURE (3) A thematic approach to selected American, British, and World Literature. Variation in content; may be re-elected once for credit in a different theme.

- 30.224 (1501.224) ELEMENTS OF FICTION (3)
  Techniques of fiction, with emphasis on the short story.
- 30.226 (1501.226) INTRODUCTION TO CLASSI-CAL MYTHOLOGY (3) The study of myth in selected works from Greek and Roman literature.
- 30.233 (1501.233) ELEMENTS OF POETRY (3) Versification, and the forms and purposes of poetry.
- 30.235 (1501.235) THE CONTINENTAL SHORT STORY (3) A study of the trends and styles of short fiction as expressed in the stories of several major continental writers such as Dostoevsky, Tolstoy, Kafka, Brecht, Mann, Gide, Camus, Sartre, Pirandello, Moravia, and Silone.
- 30.237 (1501.237) THE NOVELLA IN EUROPEAN AND RUSSIAN LITERATURE (3) A study of the 19th and 20th Century European and Russian Short Novel. Readings in such authors as Maupassant, Tolstoy, Andreyev, Gide, Faulbert, Mann, Moravia, Dostoevsky, Hesse, Balzac, Chekov, Kafka, and Solzhenitsyn.
- 30.243 (1501.243) ELEMENTS OF DRAMA (3) Forms of drama, with emphasis upon structure and convention.
- 30.251-30.252 (1501.251-1501.252) BLACK AMERICAN LITERATURE I, II (3, 3) First semester Early European travelogues, the problems of prejudice, psychological motives in Black history movements, and racial climates of various literary periods studied in conjunction with a survey of the literature of the Black American, 1619 to present; second semester Major contemporary black writers in fiction and drama, including Wright, Ellison, Jones, Hughes. 251 is recommended but not required as a prerequisite to 252.
- 30.261 (1501.261) ETHNIC-AMERICAN LITERA-TURE (3) Through a comparative analysis of short stories, novels, poetry, and drama, the literary contributions of Black, Jewish, Italian, Greek, Slavic, and other "immigrant" American writers will be studied. With an emphasis on Baltimore's ethnic communities, the course will examine ethnic literature, its relationship to "mainstream American" writing, to our society, and to ourselves.

30.271 (1501.271) THEMES IN AMERICAN LITER-ATURE (3) The course will examine in detail the treatment by major American writers of a particular theme prominent in American literature, such as the American dream, the American businessman, the American experience abroad, the new American Eden, etc. Themes will vary from semester to semester. The student may re-elect the course one

### Upper Division — Undergraduate Only

- 30.328 (1501.328) HISTORY AND LITERATURE OF THE OLD TESTAMENT (3) The chief books of the Old Testament and the Apocrypha studied from a literary and historical point of view.
- 30.331 (1501.331) ADVANCED COMPOSITION (3) Study of expository style and practice in writing and criticizing non-fiction prose, with attention to individual student writing concerns and analysis of student writing in class.
- 30.332 (1501.332) COMPARATIVE GRAMMAR (3) Study of English grammar; traditional, structural, transformational.
- 30.333 (1501.333) WRITING FOR BUSINESS AND INDUSTRY (3) Designed to familiarize students of business and the social and natural sciences with various forms of writing for business and industry. Class projects, which include correspondence, abstracts, reports, the manual, and the journal article, will be individualized to suit the background and interest of each student. Not for general education requirements.
- 30.334 (1501.334) ADVANCED INFORMATIONAL WRITING (3) Practical techniques for the gathering and presentation of information through the report. Class work will serve to familiarize the student with major sources for research, including libraries, technical centers, government publications, and the use of interviews, questionnaires, and laboratory observation. Students will be given practical experience in the fundamentals of presenting information in written form, including methods of documentation, use of figures and statistical tables, types of organization, and the use of appropriate technical language. Class projects will include applications of the major report formats, including

time but must not repeat a theme he has already studied.

30.283 (1501.283) INTRODUCTION TO IMAGINA-TIVE WRITING (3) Theories and technical considerations pertinent to writing poetry and fiction, with discussion of student writing. Consent of instructor. Offered by Dept. on a Pass/NC basis.

the proposal, the progress report, the feasibility report, and the journal article. Projects will be individualized to meet the needs of students in a variety of disciplines. The course may not be used for general education requirements.

- 30.351 (1501.351) APPROACHES TO ENGLISH STUDY (3) English as an academic discipline, critical approaches to literature; methods of investigation in language and literature. Restricted to undergraduate English majors. To be elected as soon as the English major has completed 2 lower-division courses in English.
- 30.380 (1501.380) CREATIVITY AND STYLE IN WRITING NON-FICTION (3) Practice and theory in the areas of imaginative thought and skillful phrasing that distinguish prose possessing creativeness and render impact from mere competent writing. Consideration of the nature of creativity, concreteness, tone, imagery, figures of speech, sound effects, connotation and denotation, conciseness, sentence emphasis and variety, honest and dishonest use of language.
- 30.383 (1501.383) IMAGINATIVE WRITING (3)
  The nature of the creative process and the art of imaginative expression. Concentration in writing fiction or in writing poetry, alternating in different semesters. Prerequisite: 2
  English courses and consent of instructor. Offered by Dept. on a Pass/NC basis.
- 30.470 (1501.470) TOPICS IN WRITING (3) Specialized Topics for Writers of non-fiction, fiction, and poetry. Topics will vary from semester to semester and may focus in such areas as writing biography, writing reviews, scientific and technical writing, writing criticism, advanced poetry workshop, advanced fiction workshop. May be re-elected for credit in different topic.

# Upper Division — Undergraduate and Graduate

- 30.302 (1501.302) THE ENGLISH RENAISSANCE
  (3) Non-dramatic literature of the Elizabethan period.
- 30.303 (1501.303) SEVENTEENTH CENTURY ENGLISH PROSE AND POETRY (3) Major English non-dramatic literature of the seventeenth century; the approach will be both critical and historical.
- 30.309 (1501.309) AMERICAN DRAMA (3) A study of the American drama from the beginning to the present.
- 30.312 (1501.312) WORLD DRAMA I (3) An historical and critical study of world drama and the cultural forces which produced it from the ancient Greeks to the Neo-Classic period.
- 30.313 (1501.313) WORLD DRAMA II (3) An historical and critical study of world drama and the cultural forces which produced it from the Neo-Classic period to the late nineteenth century.
- 30.319 (1501.319) ENGLISH MEDIEVAL AND REN-

- AISSANCE DRAMA (3) Development of the English Drama from the Middle Ages through the Renaissance, excluding Shakespeare.
- 30.320 (1501.320) ENGLISH DRAMA FROM THE RESTORATION TO SHAW (3) Development of the English Drama in the seventeenth, eighteenth, and nineteenth centuries.
- 30.321 (1501.321) MODERN DRAMA (3) Critical reading of plays of the late nineteenth century and the twentieth century.
- 30.323 (1501.323) THE CONTINENTAL NOVEL (3)
  A study of major continental novels in translation. Emphasis will be upon related and comparative elements in the novels of writers of France, Germany, Italy and other European countries.
- 30.325 (1501.325) HISTORICAL LINGUISTICS (3)
  An introduction to language typology and Indo-European philology; historical development of linguistics up to the twentieth century.
- 30.326 (1501.326) MYTH AND LITERATURE (3)
  The re-interpretation of themes and figures from Greek and Roman mythology.
- 30.327 (1501.327) STRUCTURAL LINGUISTICS (3)
  A study of the developments in linguistic theory in the twentieth century; major figures, DeSaussure, Sapir, Bloomfield, Trubetzkoy, Chomsky.
- 30.329 (1501.329) HISTORY OF AMERICAN ENG-LISH (3) Origins and history of American dialects; development of elements of vocabulary, sounds, and grammar which distinguish American English; standards of American English.
- 30.335 (1501.335) LITERATURE OF THE ENG-LISH ROMANTIC PERIOD (3) Major writers, social and political background, important literary ideas, and criticism.
- 30.337 (1501.337) VICTORIAN PROSE AND POETRY I (3) A study of the works of Tennyson, Arnold; and the Victorian "prophets" Macauley, Carlyle, Newman, and Mill.
- 30.338 (1501.338) VICTORIAN PROSE AND PO-ETRY II (3) A study of the works of Browning; Ruskin and the Pre-Raphaelites; Pater, Hardy, Housman, and Yeats.
- 30.340 (1501.340) MEDIEVAL LITERATURE (3) English literature during the Middle Ages, with emphasis on the mystical writers, *Piers Plowman*, the Gawain-poet, and Arthurian literature.
- 30.345 (1501.345) EIGHTEENTH CENTURY ENG-LISH PROSE AND POETRY (3) A study of backgrounds, literary trends, and significant authors, with emphasis on Swift, Pope, Johnson, and Boswell.
- 30.347 (1501.347) FOLKLORE AND LITERATURE
  (3) This course shows how and why literary artists draw for plots, characters, themes, and sometimes style upon the vast and ancient folk tradition: the anonymous oral nar-

- ratives, songs, jests, and proverbs that circulate in all cultures. Study focuses on the way writers use universal folkloric material to express their thought and world-view. Writings studied vary but include such works as selections from the *Bible, Aesop's Fables,* the *Arabian Nights, Peer Gynt,* and *Harvest Home.* Recommended but not required that the student first take 30.210. Non-majors encouraged.
- 30.365 (1501.365) PRACTICUM IN ENGLISH:
  GRAMMAR AND RHETORIC (3) The Practicum offers for the upper-level student an intense review of grammatical and rhetorical skills, coupled with the opportunity for the student to apply those skills through teaching. Students meet two hours each week with the Practicum instructor, who guides their study and review and directs their teaching. For another two hours the student teaches two English 101 sections under the supervision of the Practicum instructor. Prerequisites: 3 English courses; Junior or Senior standing; B-average or higher in all English courses taken; consent of instructor.
- 30.401 (1501.401) THE LITERATURE OF BLACK AMERICA (3) The literature of black expression in the United States with emphasis on the twentieth century. Non-fiction, fiction, and poetry by black writers will be studied. Prerequisite: 2 English courses or consent of instructor.
- 30.405 (1501.405) LITERARY CRITICISM I (3) History and principles of literary criticism. Prerequisites: 2 English courses and consent of instructor.
- 30.407 (1501.407) MODERN POETRY (3) Works of the important twentieth century poets.
- 30.408 (1501.408) MODERN FICTION TO WORLD WAR II (3) Work of the modern masters of fiction, with emphasis on Proust, Mann, and Joyce.
- 30.409 (1501.409) MODERN FICTION SINCE WORLD WAR II (3) Works of the significant writers English, American, and Continental of the past thirty years, including such figures as Grass, Robbe-Grillet, Solzhenitsyn, and Burgess.
- 30.410 (1501.410) CHAUCER (3) A study of the major poetry.
- 30.412 (1501.412) MILTON (3) A study of the poetry and major prose works.
- 30.415 (1501.415) SHAKESPEARE (COMEDIES) (3) Shakespeare's development as a poet and a dramatist during the period of the comedies and historical plays.
- 30.416 (1501.416) SHAKESPEARE (TRAGEDIES)
  (3) The great tragedies and the late romantic comedies of Shakespeare.
- 30.419 (1501.419) TWENTIETH-CENTURY BRITISH NOVEL (3) Survey of the British novel from Conrad to the present.

- 30.420 (1501.420) TWENTIETH-CENTURY BRITISH POETRY (3) Survey of British poetry from Hopkins to the present.
- 30.422 (1501.422) DEVELOPMENT OF THE ENG-LISH NOVEL I (3) History and development of the English novel through the eighteenth century.
- 30.423 (1501.423) DEVELOPMENT OF THE ENG-LISH NOVEL II (3) History and development of the English novel through the nineteenth century.
- 30.427 (1501.427) LITERATURE OF THE AMERICAN ROMANTIC PERIOD (3) Major writers, social and political background, important literary ideas, and criticism.
- 30.428 (1501.428) LITERATURE OF THE AMERICAN REALISTIC PERIOD (3) An examination of works by major writers, the social and political backgrounds, the important literary ideas, and the criticism of the American Realistic Period.
- 30.430 (1501.430) HISTORY OF THE ENGLISH LANGUAGE (3) Changes and reasons for the changes in grammar, sound, and vocabulary of the language from Old English to modern times.
- 30.431 (1501.431) STRUCTURE OF THE ENGLISH LANGUAGE (3) A linguistic approach to sounds, forms, syntax, and usage.
- 30.435 (1501.435) AMERICAN SHORT STORY (3)
  A study of the American short story from the beginning to the present.
- 30.437 (1501.437) BRITISH AND AMERICAN PROSE (3) A study of English and American non-fictional prose, with emphasis on form and style.
- 30.445 (1501.445) NINETEENTH CENTURY AMERICAN NOVEL (3) A study of major American novelists of the nineteenth century with emphasis on Cooper, Melville, Hawthorne, Howells, James, Crane, and Norris.
- 30.446 (1501.446) TWENTIETH-CENTURY AMERICAN NOVEL (3) A study of major American novelists of the twentieth century with emphasis on James, Fitzgerald, Hemingway, Faulkner, Malamud, Bellow, Barth, and Nabokov.
- 30.447 (1501.447) AMERICAN POETRY THROUGH ROBERT FROST (3) A study of American poetry from its beginnings through Robert Frost. Emphasis on major figures.
- 30.448 (1501.448) TWENTIETH-CENTURY AMERICAN POETRY (3) A study of major American poets from T. S. Eliot to the present.

#### Graduate Division

30.521 (1501.521) STUDIES IN ENGLISH LITERA-TURE (3) Thorough study of one major area of English Literature (author, period, movement, etc.). Areas covered will vary

- 30.471 (1501.471) TOPICS IN WORLD LITERA-TURE (2 or 3) Consideration of special figures, periods, genres, or conventions. Variation in content from year to year; may be re-elected.
- 30.472 (1501.472) TOPICS IN ENGLISH LITERA-TURE (2 or 3) Consideration of special figures, periods, genres or conventions. Variation in content from year to year; may be re-elected.
- 30.473 (1501.473) TOPICS IN AMERICAN LITERA-TURE (2 or 3) Consideration of special figures, periods, genres, or conventions. Variation in content from year to year; may be re-elected.
- 30.474 (1501.474) TOPICS IN WOMEN'S STUDIES (3) Consideration of selected literature by or about women. Variation in content from year to year; may be re-elected. Prerequisite: 2 English courses or consent of instructor.
- 30.475 (1501.475) TOPICS IN MULTI-ETHNIC AMERICAN LITERATURE (3) A study of Ethnic-American poetry and prose. Different groups will be emphasized each year. Possible topics include: Native American literature; Immigrant Fiction; Eastern and Southern European-American authors; Jewish writers; Hispanic-American writers; Women in Ethnic Literature. Variation in content from year to year; may be re-elected.
- 30.485, 486 (1501.485, 486) SEMINAR IN ENGLISH STUDIES (3, 3) Thorough study of one major area of English, American, or World literature (author, period, movement, etc.) not available through other electives. Areas covered will vary from semester to semester; may be taken one or two semesters. Prerequisites: junior standing and consent of instructor.
- 30.491 (1501.491) DIRECTED READING IN ENG-LISH (2-4) Independent reading in literature or in related disciplines dealing with the specific periods, topics, problems, or comparative developments of literature. Topic selected by student in consultation with the instructor. Prerequisites: 18 hours in English, or 12 hours in English and 6 in a related discipline; minimum 3:00 averages in English and the related discipline; requires consent of Department chairperson and instructor. May be repeated for credit.
- 30.494 (1501.494) TRAVEL AND STUDY (3-6)
  Countries and topics to be selected by the
  Departments and instructors sponsoring the
  program. For enrollment procedures, write
  the Chairperson of the Department early in
  the fall of the academic year preceding the
  summer of intended study.

from semester to semester. Substantial research required. Prerequisite: Graduate standing and consent of instructor.

- 30.523 (1501.523) STUDIES IN LITERARY CRITI-CISM (3) Thorough study of one major area of Literary Criticism (author, period, movement, etc.). Areas covered will vary from semester to semester. Substantial research required. Prerequisite: Graduate standing and consent of instructor.
- 30.525 (1501.525) STUDIES IN AMERICAN LITER-ATURE (3) Thorough study of one major area of American Literature (author, period, movement, etc.). Areas covered will vary from semester to semester. Substantial research required. Prerequisite: Graduate standing and consent of instructor.
- 30.527 (1501.527) STUDIES IN WORLD LITERA-TURE (3) Thorough study of one major area of World Literature (author, period, movement, etc.). Areas covered will vary from semester to semester. Substantial research required. Prerequisite: Graduate standing and consent of instructor.
- 30.531 (1501.531) STUDIES IN LINGUISTICS (3) Topics in the technology and philosophy of language: descriptive grammar, psycholinguistics, sociolinguistics, etc. Topic to vary. Prerequisite: Graduate standing and consent of instructor.



# Geography and Environmental Planning

Professors: BEISHLAG, FIRMAN

Associate Professors: DIFFENDERFER (Chairman), MARTIN

Assistant Professors: HAYUK, McKIM, STEVENSON

Instructor: SCOTT

The Department offers a major and a minor in geography. The purpose of the major is to encourage the student to explore the discipline in some depth. Such investigation, performed well, leads to an appreciation of the structure and function of the area, prepares the student for graduate work, and offers excellent background for many careers, particularly teaching and certain types of government service. The student is also expected to take correlative courses which broaden his academic background and offer valuable insights into the subject.

# Geography Major

Thirty credit hours are required as a minimum for the major in geography, of which a minimum of nine credit hours must be selected from courses with a Lower Division number (100-200) and a minimum of twenty one credit hours from Upper Division courses. At least nine credit hours of Upper Division level courses (300-400) must be from those designated as systematic or technique courses.

# Geography Minor

Eighteen credit hours are required for a minor in geography, of which a minimum of six credit hours must be selected from courses with a Lower Division number (100-200) and a minimum of twelve credit hours from Upper Division courses (300-400).

# Geography Course Prerequisites

Six hours of lower Division course work in geography or consent of the instructor are general prerequisites for all Upper Division courses, with the exceptions specified. Graduate courses require graduate status, consent of the instructor and indicated prerequisites.

#### Transfer Students

Transfer students must take a minimum of 18 credits of upper division courses in geography to fulfill requirements for the major.

# Master of Arts in Geography

The Master of Arts in Geography is designed for students who are primarily interested in an advanced degree.

Masters in Education (emphasis in geography, see Secondary Education).

# Admission to Courses in Geography for Graduate Credit

- 1. Acceptable achievement on the Graduate Record Examination in geography.
- 2. At least an undergraduate minor in geography or the equivalent.
- 3. At least a 3.00 or "B" grade average in the geography courses presented for admission.
- 4. Under extraordinary or peculiar circumstances an applicant who does not meet all of the above requirements may petition the Department of Geography for admission.

Program for the Master of Arts in Geography

- 1. Candidacy: After 9 semester hours and before the completion of 15 hours of graduate study in geography.
- 2. Number of 500 level courses: At least 15 semester hours in Graduate Geography must be earned at the 500 level.
- 3. Grade Average: A student must maintain a 3.00 average after candidacy.
- 4. Comprehensive Examination: The department reserves the option of requiring or not requiring this examination after the completion of 9 semester hours prior to the completion of the semester in which 15 hours are attained.
- 5. Statute of Limitations: All requirements must be completed by August of the seventh year of graduate study.
- 6. Credit Transfer: Six semester graduate hours in geography may be transferred from another institution and applied. A student may petition the department for consideration of transfer credits that exceed six semester graduate hours.
- 7. Specific Requirements.
  - a. Each student, in consultation with his advisor, will prepare a program of study in geography and will present it to a Graduate Committee of the Geography Department. Candidates may be required to justify their program before the Committee.
  - b. Presentation of evidence of at least a fourth semester of college level competency in one modern language OR proficiency in statistics or computer science.
  - c. Thesis: Students may elect Plan A which will require a thesis to demonstrate a student's ability to do independent research or students may elect Plan B which requires no thesis.
  - d. Prescribed Courses:

Plan A		Plan B	
Seminar 34.481	3 hours	Seminar 34.481	3 hours
Research Techniques		Regional Seminar 34.671	3 hours
34.521	3 hours	Electives	30 hours
Thesis 34.697	6 hours		
Electives	18 hours		
	30 hours		36 hours

### GEOGRAPHY COURSES (GEOG)

COMMENCING WITH THE 1976-77 ACADEMIC YEAR, THE CURRENT ALPHABETICAL DESIGNATION "GEOG" WILL BE REPLACED BY THE NUMERIC CODE OF 2206.

#### Lower Division — Undergraduate

- 34.101 (2206.101) ELEMENTS OF GEOGRAPHY I

  (3) Introductory topical studies of fundamental natural and selected cultural phenomena in man's environment. Emphasis on climate, landforms, soils, vegetation, and minerals.
- 34.102 (2206.102) ELEMENTS OF GEOGRAPHY II
  (3) Introductory regional studies of man in relation to his natural and cultural environments. Emphasis is on the distinctive and comparative nature of major regions; man's utilization of resources.
- 34.121 (2206.121) INTERPRETATION OF MAPS
  (3) Introduction to map elements and map interpretation; study of various types of maps, index systems, and general application of maps in geography.
- 34.221 (2206.221) CULTURAL GEOGRAPHY (3)

- Study of origins and diffusion of cultures and the resulting impact in creating the world's contrasting cultural landscapes.
- 34.231 (2206.231) ECONOMIC GEOGRAPHY (3) Regional distribution of the world's resources, industries, and population; emphasis upon problems of international trade. An analysis of the productive and extractive industries, manufacturing and commerce in relation to the geographic environment.
- 34.251 (2206.251) INTRODUCTION TO URBAN PLANNING (3) The sequential origins of planning and urban design, a study of contemporary planning practice, and an analysis of the social, economic and political context of plan formulation and implementation. Prerequisite: 34.101 or 34.221 or consent of the instructor.

34.299 (2206.299) INTRODUCTION TO SOURCE MATERIALS AND RESEARCH IN GEOG-RAPHY (3) Designed to provide the student with a basic working knowledge of research materials; study and review of principal reference literature, journals, and other sources of data used in geographic field and library research. Students may be required to do field work.

# Upper Division — Undergraduate and Graduate SYSTEMATIC COURSES

- 34.319 (2206.319) SOILS AND VEGETATION (3) A resource study of the world's soil and plant formations with emphasis placed upon their genesis and spatial differentiations. Prerequisites: 34.101-102 or consent of instructor.
- 34.351 (2206.351) URBAN DESIGN-MAN-SPACE-ENVIRONMENT (3) The physical planning process at the immediate, perceptual level. The relation of environment and behavior is explored, different urban areas are analyzed and a short design problem will be assigned. Prerequisite: 34.101-102 or consent of the instructor.
- 34.361 (2206.361) ADVANCED ECONOMIC GEOG-RAPHY (3) Studies mainly of the secondary and tertiary industries with some emphasis on quantitative analyses of selected economic activities. Prerequisite: 34.231.
- 34.371 (2206.371) ADVANCED PHYSICAL GEOG-RAPHY (3) Detailed analysis of characteristics, distribution, and geographical significance of the earth's physical features.
- 34.373 (2206.373) CLIMATOLOGY (3) Character, causes, and distribution of climatic types. Emphasis upon world patterns. Students may be required to do field work.
- 34.375 (2206.375) QUANTITATIVE METHODS IN GEOGRAPHY (3) Focus on statistical problems associated with the analysis of geographic data. Emphasis on the unique spatial problems of point pattern analysis, areal

#### TECHNIQUE COURSES

- 34.321 (2206.321) INTERPRETATION OF AERIAL PHOTOGRAPHS (3) Reading and interpretation of aerial photographs. The application of the aerial photograph in the fields of geography, geology, and photogrammetry.
- 34.323 (2206.323) CARTOGRAPHY AND GRAPH-ICS I (3) Study in design, construction, and effective application of maps and charts for analysis and publication; practical exercises in the use of cartographic tools, materials, and techniques.
- 34.324 (2206.324) CARTOGRAPHY AND GRAPH-ICS II (3) Continued exercises in map graphics and areal distribution maps. New techniques in presentation of graphic data

#### association, and regionalization. Prerequisites: MATH 50.111 or 50.115 or 50.119.

- 34.377 (2206.377) DESCRIPTIVE METEOROLOGY (4) An introduction to the various meteorological elements. Emphasis is placed on the interaction of temperature, pressure, wind, and moisture in creating weather patterns. Three hours of lecture and two hours of laboratory. Field work may be required. Prerequisites: Six hours of Natural Science or Geography or the equivalent.
- 34.381 (2206.381) POLITICAL GEOGRAPHY (3) Effect of political groupings upon man's use of the world, and the influence of the geographic base upon political power.
- 34.385 (2206.385) GEOGRAPHY OF POPULATION AND SETTLEMENT (3) Regional analysis of environmental resource factors contributing to various population densities and the resultant settlement patterns of man's use of the land. Prerequisites: 3 credits of geography in 100 or 200 series or consent of instructor.
- 34.391 (2206.391) URBAN GEOGRAPHY (3) Survey of the structure, functions, forms and development of urban units. Emphasis upon the locational features of social, economic, and cultural phenomena. Field work.
- 34.401 (2206.401) GROWTH OF GEOGRAPHIC THOUGHT (3) History, nature, and methodology of geography as a discipline. Analysis of schools of geographic thought; critical evaluation of important geographic works.

#### and spatial relationships. Prerequisite: 34.323.

- 34.327 (2206.327) MAP ANALYSIS AND INTER-PRETATION (3) Principal types of maps and their uses. Emphasis on understanding map components and the range of physical and cultural phenomena indicated on maps. Includes selected exercises which illustrate the analytical and graphical values of maps.
- 34.341 (2206.341) TECHNIQUES AND MATERIALS FOR GEOGRAPHY TEACHERS (3) A systematic review of geographic concepts in relation to interdisciplinary studies in the physical and social sciences. Examination of the content of geography and problems of presentation.

#### REGIONAL COURSES

34.419 (2206.419) EASTERN ANGLO-AMERICA (3) A description, an analysis, and an interpretation of the landscapes of Eastern United

States and Southeastern Canada. A regional treatment of the natural and cultural settings with attention given to international relations.

- 34.420 (2206.420) WESTERN ANGLO-AMERICA (3) A description, an analysis, and an interpretation of the landscapes of Western United States and Northern and Western Canada. A regional treatment of the natural and cultural settings with attention to international relations.
- 34.423 (2206.423) HISTORY AND GEOGRAPHY OF MARYLAND (3) Political, social and economic development of the state and its relation to major events in the development of the nation. Natural resources; regional land use; industrial development, particularly in the Baltimore area. Field trips. Field trip expenses about \$15.00, payable when trips are taken.
- 34.431 (2206.431) GEOGRAPHY OF AFRICA (3) Material resources and human geography of Africa. Problems of economic development, nationality and cultural conflicts.
- 34.441 (2206.441) GEOGRAPHY OF AUSTRALIA AND OCEANIC (3) Regional approach in analyzing and interpreting the physical and cultural patterns, natural resources, current problems, and strategic importance of the Pacific world.
- 34.443 (2206.443) GEOGRAPHY OF EAST ASIA (3) Regional studies of the physical and cultural foundations in China, Japan, and Korea. Emphasis upon human and economic resources, and role in world affairs.
- 34.445 (2206.445) GEOGRAPHY OF SOUTH AND SOUTHEAST ASIA (3) Regional studies of the physical and cultural foundations of India, Pakistan, Ceylon, Philippines, and Indonesia. Principal human and economic resources, problems of development, and role in world affairs.

### SEMINARS AND SPECIAL COURSES

- 34.479 (2206.479) FIELD RESEARCH IN PLAN-NING (1-3) Field research in contemporary planning problems. Research projects conducted under the supervision of the various state, local, and regional planning agencies. Open only to junior and senior geography majors. This course may be re-elected once for credit. Prerequisites: Consult the department chairman.
- 34.481 (2206.481) SEMINAR: SELECTED TOPICS IN GEOGRAPHY (3) Reading and research in selected topics in the field of geography. Seminar topics will be announced.
- 34.483 (2206.483) SEMINAR: THE AMERICAS (3) Individual study in selected problems of the geography of the Americas.
- 34.485 (2206.485) SEMINAR: SOUTH ASIA (3) Reading, research, and discussions on special topics related to India, Pakistan, Ceylon, the Himalayan Kingdoms, and Afghanistan.
- 34.487 (2206.487) SEMINAR: GEOGRAPHY AND MAN IN THE 20TH CENTURY (3) Selected studies on the role of geographic factors in

- 34.447 (2206.447) ECONOMIC AND POLITICAL GEOGRAPHY OF THE MIDDLE EAST (3) A regional and systematic analysis of Southwest Asia and North Africa. Study of major natural and cultural resources and related patterns of spatial organization, economic and political development, and associated problems.
- 34.451 (2206.451) GEOGRAPHY OF EUROPE (3)
  Regional analysis and appraisal of the human geography and natural resources of Europe. Problems of nationality, economic development, and cultural conflicts.
- 34.453 (2206.453) GEOGRAPHY OF THE USSR (3)
  Physical and cultural patterns and their bearing on the Soviet Union as a world power.
  Regional distribution and use of natural and human resources in agriculture and industry.
  Problems in economic development and production.
- 34.461 (2206.461) GEOGRAPHY OF SOUTH AMERICA (3) Distribution and character of the economic activities in various South American countries in relation to physical and cultural features. Resources and problems of their development; importance of foreign trade to the economy; relationship with the United States.
- 34.463 (2206.463) GEOGRAPHY OF CENTRAL AMERICA AND THE CARIBBEAN (3) Distribution and character of the economic activities in various Central American and Caribbean countries in relation to physical and cultural features. Resources and problems of their development; importance of foreign trade to the economy; relationship with the United States. Prerequisites: One 100-level course or consent of instructor.
  - economic and political affairs and in the development of technology. Analysis of contributions of applied geography to the solution of urban and rural problems.
- 34.489 (2206.489) SEMINAR: STUDIES IN EN-VIRONMENTAL QUALITY (3) Studies of selected problems in the quality of man's physical and cultural environments. Readings, discussions, and research on geographical and other aspects of man's use of natural resources and major forms of environmental pollution. Prerequisites: 34.101, 34.102, or consent of instructor.
- 34.493 (2206.493) FIELD GEOGRAPHY (2-6) Practical laboratory experience in techniques in the collection and analysis of data by observations, measurements, mapping, and photographic records. Such techniques are to be applied to selected geographic problems.
- 34.494 (2206.494) TRAVEL AND STUDY (3-6)
  Countries and topics to be selected by departments and instructors sponsoring the program. For complete information write the

- chairman of the department early in the Fall of the academic year preceding the summer of intended study. Prerequisite: Consent of instructor.
- 34.495 (2206.495) DIRECTED READING IN GEOG-RAPHY (3) Independent reading in selected areas of geography. Open by invitation of the geography department to students taking a major or minor in geography. Prerequisite: 15 hours of geography and a minimum average of 3.0 in geography courses.
- 34.496 (2206.496) INDEPENDENT STUDY IN GEOGRAPHY (1-6) Independent research, study, or field experience under supervision of a member of the Geography faculty. Designed for advanced students who wish to conduct independent investigations on aspects of Geography which are of special interest or not covered in other courses. Registration arranged with department chairperson. Prerequisites: Advanced undergraduate standing with at least 18 hours in Geography or graduate standing.
- 34.521 (2206.521) RESEARCH TECHNIQUES IN GEOGRAPHY (3) A course designed to investigate the primary sources of information in geography and to learn the nature of original investigation.
- 34.571 (2206.571) STUDIES IN PHYSICAL GEOG-RAPHY (3) The study of selected geographical topics dealing with physical landscape phenomena, especially in regards to distribution, relationships, and significance to man. Topics will be announced. No more than six semester hours may be applied toward a degree.
- 34.581 (2206.581) SEMINAR IN POLITICAL GEOG-RAPHY (2-6) Special subjects dealing with the geography of international politics, e.g.

- boundary problems, global strategy, space, sovereignty. Topics to be announced. No more than six semester hours may be applied toward a degree.
- 34.583 (2206.583) SEMINAR: ENVIRONMENTAL PROBLEMS IN MARYLAND (3) Individual research on a selected environment problem in Maryland; oral and written presentations. Prerequisite: Graduate status and either geography major, previous work in Maryland, previous seminar, or consent of instructor.
- 34.591 (2206.591) URBAN GEOGRAPHY STUDIES (2-6) Selected topics dealing with the application of geography to planning, retail and industrial location, and trade analysis. Topics to be announced. No more than six semester hours may be applied toward a degree.
- 34.601 (2206.601) LAND USE STUDIES (2-6) Certain selected problems on urban, rural and rural-urban landscapes which consider and account for geographic differences in land utilization. Topics will be announced. No more than six semester hours may be applied toward a degree.
- (2206.671) SEMINAR IN REGIONAL GEOGRAPHY (2-6) The description, analysis and interpretation of natural and cultural phenomena in certain significant geographic regions. Seminar topics will be announced. No more than six semester hours may be applied toward a degree.
- 34.697 (2206.697) RESEARCH (2-6) Directed investigation of a pertinent and appropriate geographical problem or problems based upon field and library study, which will contribute to geographical knowledge. Designed for the Masters thesis credit or individual research.

# Attention is also called to the following courses:

- 64.121 GENERAL GEOLOGY (Physical Sciences)
- 64.222 GEOMORPHOLOGY (Physical Sciences)

# Health Science

Professor: BRUESS (Chairman)

Associate Professors: GALLAGHER, OSMAN, STINE, WARREN Assistant Professors: CARLSEN, ENSOR, GAY, SIEGARS

Instructors: AGLEY, EASTERBROOK, HOOPER, J. McMAHON, M. J. McMAHON

The health science courses are geared to bridge the gap between scientific health discoveries and man's application of these to daily living, to develop man's potential to an optimal level, to aid in the selection of healthy behavior patterns for man and his environment, and to help man make the most of life. Students may select among major programs in health (school or community), medical technology, and occupational therapy.

# Major in Health

The undergraduate major in health is specifically designed to allow the student to select one of three specializations - school health, community health, or school and community health. Depending upon the specialization selected, sufficient background will be acquired to deal with health in elementary and secondary schools or in community and public health agencies. The foundation for graduate education in school or public health is also provided for the health major student.

# Requirements for the Health Major

In addition to the General College Requirements, the following courses are required of health majors:

#### School Health Specialization

Professional Education; 29.101 Careers in Education, 70.203 Educational Psychology, 28.319 Survey of Educational Programs, 27.401 Foundations of Education, 27.398 Student Teaching, and 41.205 Health Education in the School II. Health Requirements: 41.101 Current Health Problems, 41.103 First Aid, 41.201 Health Education in the School I, 41.202 Principles and Practices in Community Health, 41.208 Mental Health, 41.401 Sex Education and Family Life, 41.402 Health Seminar, 41.405 Drugs in Our Culture, and two health elective courses. Other Required Courses: 14.101 Contemporary General Biology, 22.100 Chemistry for Non-Scientists or 22.101 General Chemistry, 14.113 Human Anatomy and Physiology, 14.114 Human Anatomy and Physiology, 14.315 Medical Microbiology, 70.101 General Psychology, 80.101 Introduction to Sociology, 50.231 Basic Statistics (special section for health majors), and two semesters of physical education electives.

#### Community Health Specialization

Health Requirements: 41.101 Current Health Problems, 41.104 Parental and Child Health, 41.201 Health Education in the School I, 41.202 Principles and Practices in Community Health, 41.208 Mental Health, 41.302 Preparation for Field Work in Community Health, 41.303 Field Work in Community Health, 41.311 Epideminology, 41.451 Ecological Aspects of Health, and two health elective courses. Other Required Courses: 14.101 Contemporary General Biology, 22.100 Chemistry for Non-Scientists or 22.101 General Chemistry, 14.113 Human Anatomy and Physiology, 14.114 Human Anatomy and Physiology, 14.315 Medical Microbiology, 16.101 Introduction to Business Management, 24.101 Economic Principles and Problems I, 24.202 Economics of Health, 70.101 General Psychology, 80.101 Introduction to Sociology, 50.231 Basic Statistics (special section for health majors), and two semesters of physical education electives. It is strongly recommended that students electing the community health track also complete a minor in sociology, biology, psychology, or other appropriate related area.

School and Community Health Specialization

Professional Education: 29.101 Careers in Education, 70.203 Educational Psychology, 28.319 Survey of Educational Programs, 27.401 Foundations of Education, 27.398 Student Teaching, and 41.205 Health Education in the School II. Health Requirements: 41.101 Current Health Problems, 41.103 First Aid, 41.201 Health Education in the School I, 41.202 Principles and Practices in Community Health, 41.208 Mental Health, 41.302 Preparation for Field Work in Community Health, 41.303 Field Work in Community Health, 41.401 Sex Education and Family Life, 41.402 Health Seminar, 41.405 Drugs in Our Culture, and one health elective course. Other Required Courses: 14.101 Contemporary General Biology, 22.100 Chemistry for Non-Scientists or 22.101 General Chemistry, 14.113 Human Anatomy and Physiology, 14.114 Human Anatomy and Physiology, 14.315 Medical Microbiology, 70.101 General Psychology, 80.101 Introduction to Sociology, 50.231 Basic Statistics (special section for health majors), and two semesters of physical education electives.

### Graduate Program

A specialization in health education as part of a Master of Education program in Secondary Education has recently become available. For further information consult the graduate studies bulletin.

COMMENCING WITH THE 1976-77 ACADEMIC YEAR, THE CURRENT ALPHABETICAL DESIGNATION "HEAL" WILL BE REPLACED BY A NUMERIC CODE OF 1201.

### Lower Division—Undergraduate

- 41.101 (1201.101) CURRENT HEALTH PROBLEMS (3) Health problems of current interest or importance on an individual, community, national, and international basis. Includes a general overview of the state of the nation's health.
- 41.103 (1201.103) FIRST AID (2) Designed for people who may be called upon to give first aid care in the course of their daily activities. Course content of the American Red Cross Standard First Aid and Personal Safety Course is included. The Red Cross Standard First Aid Certificate is awarded. (Does not meet general college graduation requirement.)
- 41,104 (1201.104) PARENTAL AND CHILD HEALTH (3) An introduction to parental and child health in its contemporary, social, and cultural setting. Discussion will include parenthood, prenatal care, growth and development of the child, the school environment, physical handicaps, and public health programs serving the maternal, infant, and preschool populations. Prerequisite: 41.101.
- 41.201 (1201.201) HEALTH EDUCATION IN THE SCHOOL I (3) An introductory overview of the total school health program with emphasis on what health education is, what health services are available, and guidelines for teaching elementary and secondary school health education. Prerequisite: 41.101.
- 41.202 (1201.202) PRINCIPLES AND PRACTICES IN COMMUNITY HEALTH (3) Principles and practices in the field of community health, and the organization and administration of various agencies. Major community health problems. Prerequisite: 41.101.

- 41.203 (1201.203) FIRST AID INSTRUCTORS (2) American Red Cross First Aid Course for Instructors certification. Prerequisite: 41.103. (Does not meet general college graduation requirements.)
- 41.204 (1201.204) NUTRITION (2-3) A basic course covering the chemical nature and utilization of nutrients; the composition, digestion, absorption of foods; and the normal nutritional requirements of the human body, with attention to the relationship between nutrition and general health. Prerequisite: Chemistry 22.101, or consent of instructor. (Does not meet general college graduation requirements.)
- 41.205 (1201.205) HEALTH EDUCATION IN THE SCHOOL II (3) An in-depth consideration of the total school health program with emphasis on interpretation of school health services, analysis of selected health education curriculum guides, development of teaching materials, and actual observation and participation in health education in elementary and secondary schools. Prerequisites: 41.101, 41.201, 50.231.
- 41.206 (1201.206) HEALTH AND URBAN LIVING (3) Study of those conditions of urban living with particular relevance for the health and well-being of urban dwellers. Nature, extent, and programs and problems in dealing with atmospheric pollution, water supply, housing, sanitation, behavioral disorders, mental illness, communicable disease, etc. Prerequisite: Health 41.101, Introduction to Sociology.
- (1201.207) HEALTH CARE IN THE 41.207 UNITED STATES (3) An examination of the

medical care process and the medical care system; the health occupations, hospitals, and related institutions; the drug industry; the organization of services and financing; the quasi-public sector, social values and responsibilities, and current trends in health care. (Does not meet general college requirements.)

- 41.208 (1201.208) MENTAL HEALTH (3) A study of the positive aspects of mental health and interpersonal relationships. Emphasis is placed on self-actualization, the helping relationship, constructive confrontation, and mental health roles in school and community. Prerequisite: 41.101.
- 41.209 (1201.209) CONSUMER BEHAVIOR (3)
  The course is designed to examine consumer behavior in light of psychological, sociological, and ecological principles.

### Upper Division—Undergraduate

- 41.302 (1201.302) PREPARATION FOR FIELD WORK IN COMMUNITY HEALTH (3) Examination of techniques needed to work in various community health capacities; observation of community health situations. Prerequisites: 41.202, 50.231.
- 41.303 (1201.303) FIELD WORK IN COMMUNITY HEALTH (8 or 14) Practical experience in participation in community health situations. Prerequisite: 41.302.
- 41.305 (1201.305) COMMUNITY HEALTH ADMINISTRATION (3) A survey of current approaches to the theories, practices and organization of community health services administration. Prerequisites: Principles and Practices in Public Health (41.202).

# Upper Division—Undergraduate and Graduate

- 41.401 (1201.401) SEX EDUCATION AND FAMILY LIFE (3) Designed for the present and future teacher, the course includes an overview of human sexuality. Emphasis will be placed on the need for education about sexuality, theories of sexual education, selection of content, sequential unit planning, survey and availability of A-V materials and the qualifications of the effective sex educator. Prerequisites: 41.221 or 41.101, 70.201, 14.101.
- 41.402 (1201.402) HEALTH SEMINAR (3) Examination of recent trends in school and public health, reports of student projects, consultation with experts in health field. Prerequisite: Consent of department.
- 41.403 (1201.403) HEALTH EDUCATION CUR-RICULUM (3) Development of school health education programs based on health needs and problems of school children. Prerequisite: 41.101, 41.201.
- 41.405 (1201.405) DRUGS IN OUR CULTURE (3)
  An in-depth review of harmless, harmful,
  useful and useless substances which may

- Taught on an interdepartmental basis with the Psychology Department. Prerequisite: 41.101, 70.101.
- 41.221 (1201.221) HUMAN SEXUALITY (3) An individually oriented discussion course designed to explore the multi-disciplinary scope of human sexuality. An in-depth look at the physiological, psychological, emotional, cultural, and social aspects of human sexuality will focus on establishing one's sexuality as a healthy entity. Prerequisite: 41.101.
- 41.225 (1201.225) WEIGHT CONTROL: THEORY AND PRACTICE (3) Designed for students interested in either the theoretical and/or the practical aspects of losing, gaining, or maintaining weight. Recent medical and behavioral literature will be reviewed. Opportunities will exist in class to make application of the theories. Prerequisite: 41.101 or permission of instructor.
- 41.311 (1201.311) EPIDEMIOLOGY (3) A study of factors governing the occurrence of diseases in populations with an emphasis on chronic and communicable diseases that are health problems in U.S. today. Case studies are illustrative of basic epidemiological methods. Prerequisites: 41.101, 14.101, 50.231.
- 41.321 (1201.321) CRISIS INTERVENTION (3)
  Various crisis situations and approaches to intervention in handling these situations will be covered in the course. Examples of specific crisis concerns that will be dealt with are: drugs, sex, death, suicide, handicaps, mental illness, diseases, and family and peer groups. Prerequisites: Mental Health (41.208) or permission of instructor.
  - affect behavior or mood; the interaction of psychological, sociological and physiological components is included. Prerequisite: 41.101.
- 41.411 (1201.411) HEALTH AND LATER MATURITY—THE AGING PROCESS (3) An approach to the conservation of human resources with emphasis on understanding attitudes and practices related to health in later maturity. Designed for students with a personal or professional interest in the field. Prerequisites: 6 hours of health and/or behavioral science or consent of instructor.
- 41.451 (1201.451) ECOLOGICAL ASPECTS OF HEALTH (3) An examination of the interrelationship between man and his environment. Emphasis is placed upon health aspects of pollution, housing, sanitation, radiation, behavioral disorders and epidemiology. Prerequisites: 41.101, 80.101.
- 41.485 (1201.485) HEALTH WORKSHOP (3) For teachers, administrators, and individuals concerned about health related fields. Contemporary health aspects are considered

with emphasis on implementation of positive behavior aimed at improving the health of the individual and the community. Enrollment is limited to 25. Prerequisite: Consent of Department.

41.491 (1201.491) HEALTH DIRECTED READINGS (1-3) Independent reading in health or re-

#### **Graduate Division**

- 41.501 (1201.501) PROBLEMS IN SCHOOL HEALTH (3) Designed to assist the student in developing an understanding of current problems in school health programs. The structure, organization, scope, content and practices in the field as revealed through literature and research is studied. Prerequisite: Consent of department.
- 41.511 (1201.511) CURRENT LITERATURE IN HEALTH (3) Critical analysis of current and past research findings concerning health knowledge, attitudes, behavior, and educational techniques. A comprehensive review of health-related periodicals is included. Prerequisite: Undergraduate major in health, consent of instructor, or 15 semester hours of health.

- lated disciplines. Prerequisite: A minimum of 10 credits in health and consent of Department Chairman.
- 41.495 (1201.495) INDEPENDENT STUDY (3) Directed study on specific problems in health and related fields. Prerequisite: Consent of department and 12 hours in health.
- 41.513 (1201.513) ANALYSIS OF PHYSIOLOGICAL CONCEPTS (3) Analysis of research and laboratory applications of the physiological factors that affect human efficiency before, during, and after exercise. Factors to be investigated include: metabolism, circulationrespiration, muscular physiology, endocrine system, ergogenic aids, environmental factors, etc. Prerequisite: Consent of department chairman.
- 41.591 (1201.591) DIRECTED READINGS IN HEALTH (3) Individual study of a significant problem in health through consultation with appropriate faculty members. Emphasis is on increased knowledge of health. Prerequisite: Undergraduate major in health, consent of instructor, or 15 semester hours of health.

# Major in Medical Technology (Dr. Carl V. Henrikson, Director)

The four year program is designed to prepare allied health personnel for specialized work in hospital and medical laboratories and leads to the Bachelor of Science Degree in Medical Technology. It provides sufficient background for the student to pass the Registry Examination which is administered by the Board of Registry of the American Society of Clinical Pathologists.

Section 01 (Union Memorial Hospital) Director: DEZSO K. MERENYI, M.D.

Educational Coordinator: ROBERT E. DURELL, MT (ASCP)

Pathologist: RICHARD R. GRAHAM, M.D. Pathologist: DAVID A. DOBROW, M.D.

Biochemist: RUDOLPH KODRAS, Ph.D., D.V.M.

Section 02 (St. Joseph Hospital) Director: LAWRENCE F. MISANIK, M.D.

Educational Coordinator: ANTOINETTE M. WOLSKI, MT (ASCP)

Clinical Chemist: THOMAS R. KOCH, Ph.D. Pathologist: REYNALDO ORJUELA-GOMEZ, M.D.

Pathologist: SAMUEL C. H. LEE, M.D. Pathologist: HENRY S. CRIST, M.D.

# Requirements for the Medical Technology Major

In addition to the General College Requirements, the following courses are required of Medical Technology Majors: Biology: 14.101 Contemporary General Biology, 14.113 Human Anatomy and Physiology I, 14.114 Human Anatomy and Physiology II, 14.315 Medical Microbiology, four elective hours. Chemistry: 22.101 General Chemistry I, 22.102 General Chemistry II, 22.210 Principles and Methods of Chemical Analysis, 22.330, Essentials of Organic Chemistry, three elective hours. Other Required Courses: 41.101 Current Health Problems, 50.115 Mathematics I, 66.211 General Physics I, Strongly Recommended Courses: 66.212 General Physics II, 50.231 Basic Statistics, 22.351 Biochemistry, 14.401 Genetics, 14.421 Immunology, Recommended Courses: 41.204 Nutrition, 14.221 Introduction to Animal Parasitology, 41.311 Epidemiology.

# Medical Technology Screening Procedures

Due to the rapidly increasing size of the Medical Technology Program and since the number of spaces for clinical experiences during the senior year is limited, the following screening procedures are in effect:

During the sophomore year any student interested in majoring in Medical Technology should apply to Dr. Carl V. Henrikson for consideration. This application must be submitted by January 15.

In order to be considered the student should have completed 8 semester hours of biology, 8 semester hours of chemistry, and a total of 45 semester hours.

The Medical Technology Screening Committee will review the applications and determine which students are accepted according to the criteria listed below:

Total academic record — overall grade point averages for students being screened will be placed in a rank order. Grades in science courses will also be considered separately;

General progress towards baccalaureate degree (this includes general education courses and other courses specifically related to Medical Technology). After 3 semesters of full-time work or the equivalent, a student should have completed 50% of the general education requirements. After 4 semesters of full-time work or the equivalent, a student should have completed 70% of the general education requirements. Extenuating circumstances affecting general progress towards a degree will be considered. These might include personal health problems, a need to work many hours while attempting college, or other personal situations;

A personal interview will be used by the Screening Committee where appropriate. It is felt that the above criteria will probably be sufficient to break the students into 3 general classifications. One classification would be those who clearly fail to meet the criteria; a second classification would be those who meet the criteria very well; a third classification would be those whose status is questionable based upon the criteria. Those students in the third group are those who will be interviewed if necessary to fill the quota.

Although the number of students participating in the senior year clinical experience can change depending upon hospital affiliations, judging by present standards 14 students would be admitted to the program following the January 15 screening with the understanding that they would be placed in a hospital during their senior year if appropriate academic progress continues (approximately 1½ years later). Students falling below the 14 student cut-off point will be ranked by the Committee. Should any of the 14 accepted students fail to indicate their intention of continuing in Medical Technology by March 1, their position will be taken by students on the waiting list.

To allow a margin for error and also to attempt to pick up students who may have missed the previous screening date for various reasons, applications will again be accepted until July 1 of the calendar year. In order to be considered at that time, a student should have completed 20 hours of science and 60 total semester hours. The other criteria used would be the same as listed above. Following the July 1 screening, 6 additional students would be admitted to the program. This would result in a total of 20 students in Medical Technology during their junior year. Students accepted at this time must indicate their intention to continue in Medical Technology by August 1. A waiting list will again be established on a rank order basis combining those students who had applied for the January 15 screening, as well as the July 1 screening. Each calendar year will result in the establishment of a new waiting list. In this way it is possible for a student to apply for acceptance to the Medical Technology Program as many

Towson State students and transfer students would be considered on an equal

basis for screening purposes. Ninety credit hours are to be completed during the first three years at Towson State College or other accredited colleges. Thirty of these credit hours must be completed at Towson State College. During the fourth year, thirty-two credit hours are to be completed at Union Memorial Hospital, St. Joseph's Hospital, or other appropriate hospitals determined by Towson State College. Before beginning the fourth year at the affiliated hospital, students must attain at least a 2.0 cumulative average, a minimum grade of C in all Biology and Chemisry courses, and be accepted by the respective hospital screening committee.

During the fourth year, the twelve month course of study in the hospital includes:

COMMENCING WITH THE 1976-77 ACADEMIC YEAR, THE CURRENT ALPHABETICAL DESIGNATION "MDTC" WILL BE REPLACED BY A NUMERIC CODE OF 1223.

### Upper Division—Undergraduate Only

- 51.401-402 (1223.401-402) BLOOD BANK (1.5, 1.5) Methods used in collecting blood and procedures required in preparing blood for blood
- 51.403-404 (1223.403-404) CLINICAL BIOCHEM-ISTRY (4, 4) Biochemical tests used in all medical diagnosis.
- 51.405-406 (1223.405-406) HEMATOLOGY (4, 4) Blood cell morphology and various tests to determine their presence.
- 51.407-408 (1223.407-408) CLINICAL PATHOLOGY (1, 1) Discussions of theoretical and practical aspects of analyses of special body fluids with emphasis on clinical pathological correlations.

- 51.409-410 (1223.409-410) DIAGNOSTIC MICRO-BIOLOGY (2.5, 2.5) Stain preparations and chemical tests used in identifying bacteria and in diagnosing diseases caused by them.
- 51.411-412 (1223.411-412) HUMAN TOLOGY (1, 1) Microscopic identifications of all disease producing organisms other than those caused by bacteria.
- 51.413-414 (1223.413-414) SEROLOGY (1, 1)Identifications of the types of serous fluids and interpretations of tests showing these types.
- 51.415-416 (1223-415-416) URINALYSIS (1, 1) Microscopic observations and chemical tests necessary to identify materials present in urine.

# Occupational Therapy (Mrs. Diane Stine, Director)

Occupational therapy is the art and science of directing man's participation in selected tasks to restore, reinforce and enhance performance, facilitate learning of those skills and functions essential for adaptation and productivity, diminish or correct pathology, and promote and maintain health. Occupational therapists direct the use of self-care, work, homemaking, play, and leisure activities. They use these activities to assist individuals or groups whose health is threatened or impaired by developmental deficits, aging, poverty and environmental conditions, physical injury or illness, and psychological and social disability.

# Major in Occupational Therapy

The four year program is designed to provide a liberal education and develop professional competence. It leads to the Bachelor of Science in Occupational Therapy and is planned to prepare graduates to pass the certification exam to become a registered occupational therapist. Contact the Occupational Therapy Office for information about program admission; admission to the college does not guarantee admission to the occupational therapy major. Screening into the major will take place at the end of freshman year, after completion of courses listed in first two semesters below. (Note, the sequence of courses starts only in the fall.)

General Biology: 70.101, General Psychology; 30.102, English Composition; 70.101 Introduction to Sociology; 63.112 Overview of Occupational Therapy Philosophy & Services; 70.230 Mental Hygiene. It is necessary that students place themselves on the Occupational Therapy Candidates List before screening. Full time study is required in the Occupational Therapy Major.

# Requirements for the Occupational Therapy Major

	FIRST Y	'EAR					
First Semester		Second	Semester				
14.101 Contemporary General Biology 70.101 General Psychology 30.102 English Composition 70.101 Introduction to Sociology 63.112 Overview of OT Philisophy & Services	4 3 3 3	63.112 41.207 10.207 70.230 30.	Overview of Occupational Therapy Philosophy & Services Health Care in the U.S. Cultural Anthropology Mental Hygiene (Prereq. 70.101) English requirement	1 3 3 3 3			
	14		Physical Education Group I Elective	1 3			
			Group i Elective	17			
	CECOND	VEAD		''			
SECOND YEAR  Third Semester Fourth Semester							
Third Semester							
14.113 Human Anatomy & Physiology I 63.111 Occupation as a Health Determinan	4 t 3	14.114 63.216		4			
63.116 Bio-Psycho-Social Development	3	00.210	tion (Prereq. 63.215)	3			
63.215 Causes of Performance Dysfunc-		63.218	Task Analysis & Occupational				
tion (Prereq. 70.230 or 70.361, 14.113 concurrent, 63.112)	3	63.229	Performance (Prereq. 63.217) Occupational Therapy Practicum I	4			
63.217 Task Analysis and Occupational			(Prereq. 63.215 & 63.217)	4			
Performance (Prereg. 63.111	4	41.101	Current Health Problems	3			
with 63.116 concurrent)	<del>4</del> <del>17</del>			18			
THIRD YEAR							
Fifth Semester		Sixth S	emester emester				
58.203 Logic	3	70.350		3			
63.312 Analysis of Human Motion (Prereg. 63.215 & 63.216)	3	63.323	Human Development through Occupation II (Prereg. 63.229;				
63.313 Human Development through Occu-	•		63.312)	4			
pation I (Prereq. 63.229)	4	24.101	Economics or other Group III	2			
80.470 Sociology: Small Groups (Prereq. 80.101)	3	50.000	elective Statistics	3			
68.103 American Political Science	3	00.000	Group I elective	3			
	16			16			
FOURTH YEAR							
Seventh Semester			Semester				
63.415 Occupational Therapy Practicum I		63,428					
(Prereq. 63.313 & 323) Summer 63.416 Occupational Therapy Practicum II	7		tion, Administration and Teachin (Prereq. 63.415 & 416)	g 3			
(Prereq. 63.313 & 323) Fall	7	63.429	Synthesis of Occupational Therapy	0			
	14	63.430	(Prereq. 63.415 & 416) Exploration in Dynamics of Occupa-	- 2			
			tion (Prereq. 63.415 & 63.416)	2			
		41.103	First Aid Group I elective	2			
			Other electives as desired	3			
			12	2-15			

COMMENCING WITH THE 1976-77 ACADEMIC YEAR, THE CURRENT ALPHABETICAL DESIGNATION "OCTH" WILL BE REPLACED BY A NUMERIC CODE OF 1208.

#### Lower Division—Undergraduate

63.111 (1208.111) OCCUPATION AS A HEALTH DETERMINANT (3) Delineation and study of the relation of occupation to health, concentrating on a variety of types of occupation, including play, self-care, education, employment, recreation, leisure, and homemaking, and illustrating the effects of health and ill health on occupational behavior. Prerequisites: 14.101, 70.101, 80.101. Fall.

63.112 (1208.112) OVERVIEW OF OCCUPATION-AL THERAPY: PHILOSOPHY AND SERVICES (1) An introduction to the philosophy of occupational therapy and a study of its practice, covering identification of clients, settings for practice, personnel, and historical factors. Spring & Fall.

63.116 (1208.116) BIO-PSYCHO-SOCIAL DEVEL-

OPMENT (3) A survey of the normal development process in human beings covering the entire life cycle, and including discussion of deviations from the normal. Stresses the development of work/play behavior; theoretical material and research findings are presented. Prerequisites 14.101, 70.101, 80.101. Fall.

63.215, 63.216 (1208.215-216) CAUSES OF PER-FORMANCE DYSFUNCTION (3, 3) The etiology, patho-physiology, performance effects, remedial approaches, objectives of occupational therapy, precautions, and prognosis of a series of major disabilities amenable to occupational therapy. The disabilities discussed include emotional, neurological, orthopedic, and general medical conditions. Prerequisites: 14.113 and 14.114 (latter may be concurrent), 63.112, 70.230 or 70.361, 63.215—Fall. 63.216—Spring.

63.217, 63.218 (1208.217-218) TASK ANALYSIS

AND OCCUPATIONAL PERFORMANCE (4, 4) An introduction to the gathering of occupational history data, analyses of tasks and skills, development of occupational performance skills in areas pertinent to students' needs and interests, and adaptation of equipment for special requirements. Integrates knowledge and skills for occupational therapy services which foster health development, prevent health problems, maintain optimal function, and develop occupational performance skills. Prerequisite: 63.111 and 63.116 (both may be concurrent). 63.217-Fall. 63.218—Spring.

63.229 (1208.229) OCCUPATIONAL THERAPY PRACTICUM I (4) Equivalent of 4-5 weeks supervised field experience in occupational therapy programs designed to foster healthy development, prevent health problems, maintain optimal function, and develop occupational performance skills. Prerequisite: 63.215, 63.217. Spring.

# Upper Division—Undergraduate and Graduate

- 63.312 (1208.312) ANALYSIS OF HUMAN MOTION (3) Presentation of the anatomy and physiology of the musculoskeletal system and of related neuroanatomical, neurophysiological, and kinesiology concepts. Human motion seen as integrated actions and related to the integration of body systems. Prerequisites: 63.215-216. Fall.
- 63.313 and 63.323 (1208.313 and 1208.323) HU-MAN DEVELOPMENT THROUGH OCCUPA-TION I AND II (4, 4) Principles of the application of occupational therapy to meet the needs of clients. Covers measurement and evaluation, remediation, precautions, and community resources. Laboratory experiences will be used to develop skills in selected areas. Prerequisite: 63.229, 63.312 (can be concurrent). 63.313-Fall. 63.323-Spring.
- 63.415-416 (1208.415-416) OCCUPATIONAL THER-APY PRACTICUM II, III (7, 7) Three to four months each full time supervised field experience with the opportunity to provide occupational therapy services to clients of both sexes, and varyng ages. These field education courses must include a variety of learning experiences in perceptual-cognitive-motor development and physical and psychological function. They also include institutional and community delivery systems. Prerequisite: 63.313 and 63.323. 63.415-Summer. 63.416-Fall.
- 63.418 OCCUPATIONAL THERAPY PRACTICUM IV (3) An optional field education experi-

- ence of two to three months designed to meet special needs or interests. May include such areas of practice as mental retardation, cerebral palsy, sensory impairments, child psychiatry, adolescent psychiatry, special education, pediatrics, geriatrics, public health, drug abuse or penology. Prerequisites: 63.313 and 63.323.
- 63.428 (1208.428) OCCUPATIONAL THERAPY OR-GANIZATION, ADMINISTRATION, AND TEACHING (3) Administrative and organizational theory applied to occupational therapy service programs. Content includes personnel relationships and supervision, systems analysis, program planning, budgeting, space and facilities planning, communication systems, and programs for staff and student development. Prerequisite: 63.415-416. Spring.
- 43.429 (1208.429) SYNTHESIS OF OCCUPA-TIONAL THERAPY THEORY AND PRACTICE (2) Seminar designed to analyze problems encountered in educational and field situations and to focus on and analyze a variety of new occupational therapy topics depending on the needs and interests of students. Prerequisite: 63.416-416. Spring.
- 63.430 (1208.430) EXPLORATION IN THE DY-NAMICS OF OCCUPATION (2) Guided, independent research in topics related to the dynamics of occupation, occupational therapy practices, and theory testing. Presentation of introductory materials on research methods and reporting of results. Prerequisite: 63.415-416. Spring.

# History

Professors: ANDREWS, BLUMBERG, BOLES, J. COX, FALCO, KAHL (Chairman), KERR, LAREW, MATTHEWS, McCLEARY, MRUCK, ONION, RIVERS, RYON
Associate Professors: ESSLINGER, JOCHENS, D. MARTIN, McWILLIAMS, PIOTROWSKI, F. SANDERS, SCARPACI, SCHOLNICK, VAN OSDELL, WHITMAN
Assistant Professors: ELDRIDGE, HIRSCHMANN, NZEADIBE, SLADEK

The Department offers a major to encourage the student to explore in some depth the study of history. Such investigation, performed well, leads to an appreciation of the structure and function of the discipline, prepares the student for graduate work, and offers excellent background for many careers, particularly teaching and certain types of government service. The student is expected to take correlative courses which broaden his academic background and offer valuable insights into his major subject. The Department of History also strongly recommends the completion of two years of a foreign language.

The Department offers an honors program in history. Eligibility requirements and rules governing the college honors program are described elsewhere in this Bulletin. Students interested in the history honors program should consult their advisers and the Chairman of the Department.

# Requirements for the Major

Thirty-six credit hours are required for a major in history, eighteen of which must be 40.145, 40.146, 40.241, 40.242, and 40.290; and three hours in Asian, African or Latin American history. At least twelve hours must be in upper division courses. Further details about requirements and policies concerning the major may be obtained in the Department office. Majors should register with the Department and select an academic adviser during the second semester of the freshman year or at the beginning of the sophomore year.

# Requirements for the Minor

Twenty-four credit hours are required for a minor in history, three of which must be 40.290. Twelve hours are to be chosen from the other lower division courses in such a way that at least three hours be chosen from the following group (Third World): 40.109, 40.110, 40.121, 40.122, 40.133, 40.134, 40.281. Nine hours must be chosen among upper division courses.

#### HISTORY COURSES (HIST)

COMMENCING WITH THE 1976-77 ACADEMIC YEAR, THE CURRENT ALPHABETICAL DESIGNATION "HIST" WILL BE REPLACED BY A NUMERIC CODE OF 2205.

# Lower Division —Undergraduate

- 40.101 (2205.101) INTRODUCTION TO ANCIENT CIVILIZATION (3) Political, social, economic, and intellectual forces which shaped the pattern of Near Eastern and European life from the Stone Ages through the decline of the Roman Empire. (Formerly 40.262 History of Western Civilization I)
- 40.109 (2205.109) INTRODUCTION TO THE CIVILIZATION OF INDIA (3) Development of the culture of South Asia from earliest times and the emergence of the present nations of Bangladesh, Pakistan, India, and Sri Lanka (Ceylon).

40.110 (2205.110) INTRODUCTION TO EAST AS-

- IAN CIVILIZATION: CHINA AND JAPAN (3) An outline of the development of the civilizations of China and Japan, with emphasis on principal cultural and political themes.
- 40.121 (2205.121) LATIN AMERICA, COLONIAL PERIOD (3) The political, economic, and social developments in Portuguese and Spanish America from the pre-Columbian period to the movements for independence.
- 40.122 (2205.122) LATIN AMERICA, NATIONAL PERIOD (3) The struggle for political, economic, and social stability, international relations and cultural patterns in the development of independent Latin America in the nineteenth and twentieth centuries.

- 40.133 (2205.133) THE AFRICAN WORLD I (3) A multi-disciplinary approach to the study of African people from about 4500 B.C. to the fifteenth century.
- 40.134 (2205.134) THE AFRICAN WORLD II (3)
  A multi-disciplinary approach to the study
  of African people south of the Sahara from
  the fifteenth century to the present.
- 40.145 (2205.145) HISTORY OF THE UNITED STATES I (3) Political, economic, social, and cultural forces which shaped the pattern of life in the United States from the founding of the colonies to 1865.
- 40.146 (2205.146) HISTORY OF THE UNITED STATES II (3) Continuation of 40.145 from 1865 to the present.
- 40.201 (2205.201) SURVEY OF ENGLISH HISTORY TO 1783 (3) Evolution of the political, legal, social, economic, and cultural institutions of England and the spread of the Empire overseas. The triumph of Parliament over the monarchy and the development of individual rights of Englishmen.
- 40.202 (2205.202) BRITISH HISTORY SINCE 1783 (3) Struggle against France, the Industrial Revolution, and the rise of the bourgeoisie to political control. The spread of empire, the symbolism of the Victorian era, and the evolution of democratic processes.

- 40.241 (2205.241) HISTORY OF EUROPEAN CIVI-LIZATION I (3) Political, social, economic, and intellectual forces which shaped the pattern of European life from post-Roman times through the seventeenth century. (Formerly 40.263 History of Western Civilization II)
- 40.242 (2205.242) HISTORY OF EUROPEAN CIVI-LIZATION II (3) Political, social, economic, and intellectual forces which shaped the pattern of European life from the seventeenth century to the present. (Formerly 40.264 History of Western Civilization III)
- 40.277 (2205.277) A SURVEY OF JEWISH HISTORY (3) Political, cultural, and socioeconomic experience of world Jewry from the Diaspora to the present. Emphasis on the nineteenth and twentieth centuries.
- 40.281 (2205.281) INTRODUCTION TO ISLAMIC HISTORY (3) A survey of the history and culture of the Islamic peoples from Muhammed to the present. Emphasis on the Arabic nations.
- 40.290 (2205.290) INTRODUCTION TO HISTORI-CAL STUDY (3) Survey of historical writings, the theory of history, introduction to research.

### Upper Division — Undergraduate and Graduate

- 40.301 (2205.301) ANCIENT NEAR EASTERN CIV-ILIZATIONS (3) The civilizations of Mesopotamia and Egypt and the peripheral developments in Syria-Palestine and Asia Minor. Prerequisite: 40.101 or consent of the instructor.
- 40.302 (2205.302) CLASSICAL CIVILIZATIONS (3)
  The civilizations of Greece and Republican
  Rome with emphasis on their comparative
  developments to 30 B.C. Prerequisite: 40.101
  or consent of the instructor.
- 40.303 (2205.303) HELLENISTIC CIVILIZATION (3)
  The civilization that arose in the Mediterranean Basin after the conquests of Alexander and the Roman Empire within this context. Prerequisite: 40.101 or consent of the instructor.
- 40.309 (2205.309) HISTORY OF EAST ASIA UNTIL THE SEVENTEENTH CENTURY (3) The historical development of the civilizations of China, Japan, and Korea prior to the intrusion by the Western powers, with special emphasis on the evolution of the Confucian culture of China. Prerequisite: 40.110 or consent of the instructor.
- 40.310 (2205.310) HISTORY OF EAST ASIA SINCE 1600 (3) A study of the historical development of China, Japan, and Korea in the past three centuries focusing on their respective responses to the Western World. Prerequisites: 40.110 or 40.309 or consent of the instructor.
- 40.311 (2205.311) HISTORY OF INDIA TO 1750

- (3) A survey of the history and culture of the Indian subcontinent from prehistoric times to the beginning of the British Raj. Prerequisite: Six hours of history or consent of the instructor.
- 40.312 (2205.312) HISTORY OF MODERN INDIA AND PAKISTAN (3) The history of the Indian subcontinent since 1750, stressing the rise of British power, the colonial experience, the development of nationalist movements, and the problems of statehood in present-day India, Pakistan, Ceylon, and Nepal. Prerequisite: Six hours of history or consent of the instructor.
- 40.313 (2205.313) HISTORY OF MODERN SOUTH-EAST ASIA (3) The development of Burma, Thailand, Malaysia, Indonesia, Cambodia, Vietnam, and the Philippines since 1500, with emphasis on the colonial experience and development of modern nationhood. Prerequisite: Six hours of history or consent of the instructor.
- 40.316 (2205.316) CHINESE HISTORY SINCE 1800 (3) China from the beginnings of the Western penetration through the Nationalist and Communist revolutions of the twentieth century. Prerequisite: Six hours of history to include either 40.110 or 40.242 or consent of the instructor.
- 40.317 (2205.317) HISTORY OF MODERN JAPAN (3) The political, economic, and cultural aspects of Japan's rapid modernization from the mid-nineteenth century and her subse-

- quent expansion, defeat, and recovery. Prerequisite: Six hours of history to include either 40.110 or 40.242 or consent of the instructor.
- 40.321 (2205.321) HISTORY OF MEXICO: PRE-COLUMBIAN AND COLONIAL (3) The political, economic, social, and cultural developments from early Pre-Columbian civilizations to the movement for independence. Prerequisite: Six hours of lower division history.
- 40.322 (2205.322) HISTORY OF MEXICO: NATIONAL PERIOD (3) The political, economic, social, and cultural developments from independence to the present. Prerequisite: Six hours of lower division history.
- 40.333 (2205.333) SUB-SAHARAN AFRICA (3) Selected aspects of the development of African cultures, emphasizing changing assumptions and interpretations and the contributions of other disciplines to the reconstruction of Africa's past. Prerequsite: Six hours of history, or three hours of history and three hours of anthropology, archeology, linguistics, or political science; or consent of the instructor.
- 40.334 (2205.334) HISTORY OF WEST AFRICA: 1500-1885 (3) The cultural, social, economic, and political institutions of the West African people from 1500 to 1885 with emphasis on the contributions made to African history by the Ashanti, the Old Oyo, the Dahomey, and the Bini. Prerequisite: 40.133 or 40.134 or 10.207 or consent of the instructor.
- 40.335 (2205.335) HISTORY OF RECENT AFRICA (3) The political, economic, cultural, and intellectual forces which shaped the lives of the African people since World War II. Prerequisite: 40.133 or 40.134 or 40.242.
- 40.345 (2205.345) THE AMERICAN COLONIES: 1492-1763 (3) Founding and the political, economic, and social development of the American colonies. Prerequisite: 40.145 or 40.241 or consent of the instructor.
- 40.346 (2205.346) THE AMERICAN REVOLUTION-ARY PERIOD: 1763-1789 (3) From the end of the Seven Years' War to the ratification of the Constitution. Prerequisite: 40.145 or 40.241 or consent of the instructor.
- 40.347 (2205.347) THE EARLY NATIONAL PERIOD (3) The United States from the Constitutional Convention to the Election of 1820. The Federalist Decade and the Jeffersonian Era. Prerequisite: 40.145.
- 40.348 (2205.348) THE JACKSONIAN ERA (3) The United States from 1815 to 1845; political, social, and economic currents of the period. Prerequisite: 40.145.
- 40.349 (2205.349) THE CIVIL WAR (3) Sectionalism, the coming of the war, and the war years. Emphasis on political, economic, and social issues. Prerequisite: 40.145 and 40.146.
- 40.350 (2205.350) THE ERA OF RECONSTRUCTION (3) Political, economic, and social

- study of the Reconstruction era, the war years to 1877, and its aftermath. Prerequisite: 40.145 and 40.146.
- 40.351 (2205.351) THE GILDED AGE (3) History of the United States from 1877 to 1892 with emphasis on the political, economic, and social questions of the era. Prerequisite: 40.145 and 40.146.
- 40.352 (2205.352) THE POPULIST-PROGRESSIVE ERA (3) History of the United States from 1892-1920 with emphasis on the political, economic, and social questions of the era. Prerequisite: 40.145 and 40.146.
- 40.359 (2205.359) RECENT AMERICAN HISTORY: 1920-1945 (3) History of the United States from the 1920's through World War II, with emphasis on the presidential years of Franklin D. Roosevelt. Prerequisite: 40.146.
- 40.360 (2205.360) RECENT AMERICAN HISTORY SINCE 1945 (3) History of the United States from World War II to the present, including political, social, economic, and diplomatic developments. Prerequisite: 40.146.
- 40.361 (2205.361) AMERICAN INTELLECTUAL HISTORY TO 1859 (3) Main issues in American thought from the colonial period to the publication of Darwin's *The Origin of Species*. Emphasis on religious thought, political theory, and ideas in literature. Prerequisite: 40.145 or 30.211.
- 40.362 (2205.362) AMERICAN INTELLECTUAL HISTORY SINCE 1859 (3) Main issues in American thought from the publication of Darwin's *The Origin of Species* to contemporary times. Emphasis on religious thought, social theory, ideas in literature and philosophy. Prerequisite: 40.146 or 30.212.
- 40.363 (2205.363) SOCIAL HISTORY OF THE UNITED STATES TO 1865 (3) History of American life from the seventeenth century to the Civil War, focusing on problems relating to social structure, popular culture, family, religious, and educational institutions. Prerequisite: 40.145.
- 40.364 (2205.364) SOCIAL HISTORY OF THE UNITED STATES SINCE 1865 (3) History of American life from the Civil War to the present, focusing on problems relating to social structure, popular culture, family, religious, and educational institutions. Prerequisite: 40.146.
- 40.365 (2205.365) THE AGRICULTURAL ERA OF AMERICA (3) A study of the development of agriculture and the commercial, financial, and manufacturing institutions in America from colonial times to the Civil War. Prerequisite: 40.145.
- 40.366 (2205.366) A HISTORY OF AMERICAN BUSINESS (3) A study of industry, finance, commerce and agriculture from the Civil War to the present. Prerequisite: Junior standing or consent of instructor plus three hours of history. (Also carries Business Administration major credit.)
- 40.367 (2205.367) CONSTITUTIONAL HISTORY OF THE UNITED STATES I (3) Develop-

- ment of American constitutionalism in theory and practice to 1868. Prerequisite: 40.145.
- 40.368 (2205.368) CONSTITUTIONAL HISTORY OF THE UNITED STATES II (3) Continuation of 40.367 since 1868. Prerequisite: 40.146.
- 40.369 (2205.369) DIPLOMATIC HISTORY OF THE UNITED STATES TO 1900 (3) Evolution of the American national interest in foreign relations with Europe, Latin America, and the Far East from colonial times to 1900. Emphasis upon the changing character and role of objectives, policies, commitments, and forces. Prerequisite: 40.145 and 40.146.
- 40.370 (2205.370) DIPLOMATIC HISTORY OF THE UNITED STATES SINCE 1900 (3) Continuation of 40.369 to the present with added interest in the emergence of the United States as a major world power. The role of the United States in modern warfare, world wide economic and financial affairs, overseas expansion, the diplomatic impact of conflict in ideologies, and current international crisis. Prerequisite: 40.145 and 40.146.
- 40.371 (2205.371) UNITED STATES RELIGIOUS HISTORY I (3) The interactions between religion, society, reform, and education in the American past. Emphasis on how religious ideals have shaped American institutions and character. First semester to 1865. Prerequisite: 40.145.
- 40.372 (2205.372) UNITED STATES RELIGIOUS HISTORY II (3) Continuation of 40.371 since 1865. Prerequisite: 40.146.
- 40.373 (2205.373) THE AMERICAN FRONTIER I
  (3) The westward movement of the American people and the effect of the frontier process on the social, economic, and political institutions of the United States and on the attitudes of the American people to 1840. Prerequisite: 40.145.
- 40.374 (2205.374) THE AMERICAN FRONTIER II (3) Continuation of 40.373 since 1840. Prerequisite: 40.146.
- 40.375 (2205.375) THE CITY IN AMERICAN HISTORY (3) The development of the city and its impact on American social, cultural, intellectual, political, and economic life. Prerequisite: 40.145, 40.146 or two of the following: 34.391, 80.344, 68.305 or consent of the instructor.
- 40.377 2205.377) THE IMMIGRANT IN AMERICAN HISTORY (3) The history of the immigrant experience in America from the colonial period to the present. Emphasis on migration patterns, receptivity of native society, assimilation and acculturation processes. Prerequisite: 40.145 and 40.146.
- 40.379 (2205.379) INDIAN-WHITE RELATIONS IN AMERICAN HISTORY (3) The interplay of societal attitudes, cultural beliefs, and official government policy and their impact on the Indian population of North America, from 1492 to the present. Prerequisite: Three hours of American history.

- 40.381 (2205.381) HISTORY OF AFRO-AMERI-CANS (3) History of Americans of African ancestry from their West African background to the present. Emphasis on black Americans' thought, activities, organizations, and their role in developing America. Prerequisite: 40.145 and 40.146.
- 40.383 (2205.383) AMERICAN RADICALISM SINCE 1890 (3) Leadership, organization, and theories of those who sought fundamental economic change in the United States; emphasis on anarchism, communism, and socialism. Prerequisite: Six hours of history or consent of the instructor.
- 40.391 (2205.391) HISTORY OF CANADA (3) Canadian history with emphasis on the period since 1867. Particular attention will be given to the problems of cultural dualism and confederation. Prerequisite: 40.145 or 40.146 or 40.242 or 68.101.
- 40.397 (2205.397) HISTORY AND GEOGRAPHY OF MARYLAND (3) Political, social, and economic development of the state and its relations to major events in the development of the nation. Natural resources; regional land use; industrial development, particularly in the Baltimore area. Field trips. \$15.00 field trip fee payable by the time of registration. Prerequisite: 40.145, 40.146, 34.101, and 34.102
- 40.400 (2205.400) SEMINAR IN AMERICAN HISTORY (3) Reading and research dealing with a phase of history to be selected by the instructor; considerable attention to sources and historiography. Prerequisite: Consent of the instructor and fifteen hours of history including either 40.290 or 40.490 or 40.498.
- 40.401 (2205.401) MEDIEVAL CIVILIZATION I (3) The principal currents of political, social, intellectual, and artistic developments in medieval Europe from the early middle ages to about 1050. Prerequisite: 40.241.
- 40.402 (2205.402) MEDIEVAL CIVILIZATION II (3)
  Continuation of 40.401 the high middle ages, 1050 to 1350. Prerequisite: 40.241.
- 40.403 (2205.403) THE RENAISSANCE ERA: 1300-1530 (3) Political, economic, social, and cultural changes in late medieval and Renaissance Europe. Prerequisite: 40.241 or consent of the instructor.
- 40.404 (2205.404) THE REFORMATION: 1500-1648 (3) Religious, political, economic, and social changes in Reformation and Counter-Reformation Europe. Prerequisite: 40.241 or consent of the instructor.
- 40.405 (2205.405) EUROPE. 1648-1815 (3) European state system and expansion of European civilization; intellectual growth and class relationships culminating in the French Revolution and Napoleon. Prerequisite: 40.242.
- 40.406 (2205.406) EUROPE: 1815-1914 (3) Major economic, political, social, and intellectual currents of the period. The effects of the industrial revolution, the development of

- nationalism and imperialism, and the origins of World War I. Prerequisite: 40.242.
- 40.407 (2205.407) EUROPE: 1914-1939 (3)
  Events leading to World War I, the conflict, and the peace which followed. The rise of conflicting political ideologies and the road to World War II. Prerequisite: 40.241 and 40.242.
- 40.408 (2205.408) EUROPE SINCE 1939 (3) World War II — diplomacy, strategy, and results. The economic, social, and political recovery of post-War Europe and the development of new alliance structures. Prerequisite: 40.241 and 40.242.
- 40.410 (2205.410) EUROPEAN SOCIAL HISTORY SINCE THE EIGHTEENTH CENTURY (3) Dynamics of change in an industrializing society with class structure as the framework for understanding the transformation of organizations and institutions in which individuals experienced relationships and through which they expressed values. Prerequisites: 40.242 or six hours of upper division sociology.
- 40.413 (2205.413) EUROPEAN MILITARY HISTORY SINCE 1815 (3) Wars, inter-war military developments, and civil-military relations seen in the context of European diplomacy and socio-economic history since Napoleon. Emphasis on the two world wars. Prerequisite: 40.242 or consent of the instructor.
- 40.415 (2205.415) DIPLOMATIC HISTORY OF EU-ROPE: 1815-1939 (3) A study in depth of specific diplomatic crises, with emphasis upon the impact of each upon the European Balance of Power. Prerequisite: 40.242.
- 40.417 (2205.417) ECONOMIC HISTORY OF EU-ROPE I (3) A study of European economy to the middle of the eighteenth century. Particular attention will be given to the development of commerce, capitalism, manufacture, and mercantilism. Prerequisite: 40.241.
- 40.418 (2205.418) ECONOMIC HISTORY OF EU-ROPE II (3) The industrialization of Great Britain, France, Germany, Russia, and peripheral nations from the middle of the eighteenth century. Prerequisite: 40.242.
- 40.419 (2205.419) EUROPEAN INTELLECTUAL HISTORY I (3) Religious, scientific, political, and social theories seen in their historical context from the early Middle Ages to 1789; emphasis on the seventeenth and eighteenth centuries. Prerequisite: 40.241 or 40.242 or consent of the instructor.
- 40.420 (2205.420) EUROPEAN INTELLECTUAL HISTORY II (3) Religious, scientific, political, and social theories of the European intellectual class seen in their historical context from the French Revolution to the present. Prerequisite: 40.242 or consent of the instructor.
- 40.421 (2205.421) BRITAIN IN THE TWENTIETH CENTURY (3) The role of Britain, the Commonwealth, and the Empire. Social reform and World War I. Efforts to recover economic equilibrium, World War II. Decline of the

- Empire and Socialism. Prerequisite: 40.241 and 40.242.
- 40.431 (2205.431) FRANCE: 1763-1871 (3) Old Regime and the impact of successive revolutions upon French society. Emphasis upon the role of France in the growth of European liberalism and nationalism. Prerequisite: 40.242.
- 40.441 (2205.441) GERMANY: 1871-1945 (3) Brief topical analysis of the nineteenth century background. Concentration on the Bismarckian Empire, Weimar Republic, and the Third Reich, emphasizing the interrelationships between internal developments and Germany's role in Europe and the world. Prerequisite: 40.242.
- 40.451 (2205.451) RUSS!A 862-1894 (3) Political history and theory, social relations, economic, cultural and literary development, and growth of the Russian states. Prerequisite: 40.241 and 40.242 or consent of the instructor.
- 40.452 (2205.452) RUSSIA/SOVIET UNION 1894-1953 (3) Political, ideological, economic, and cultural factors influencing the fall of the monarchy, the Bolshevik Revolution, Leninism, and Stalinism. Prerequisite: 40.242 or consent of the instructor.
- 40.461 (2055.461) SEMINAR IN EUROPEAN HISTORY (3) Reading and research dealing with a phase of history to be selected by the instructor; considerable attention to sources and historiography. Prerequisite: Consent of the instructor and fifteen hours of history including either 40.290 or 40.490 or 40.498.
- 40.477 (2205.477) EUROPE IN THE THIRD WORLD: COLONIALISM TO CRISIS (3) The impact of modern European Colonialism on the societies of the Third World, chiefly Africa and Asia. Primary emphasis on the period after 1914. Prerequisites: Six hours of Modern European, African, Asian, or Latin American history.
- 40.479 (2205.479) A HISTORY OF DIPLOMACY
  (3) Evolution from its origins to the present with emphasis on the modern period. Historic changes which shifting ideologies and new technologies have wrought in the role of the diplomat. Prerequisite: 40.241 and 40.242.
- 40.481 (2205.481) HISTORY OF MANAGEMENT
  (3) The theory, organization, and operation of selected political, religious, military, economic, and social institutions of the western world. Prerequisites: Jr. standing or consent of the instructor and three hours of history. (Also carries Business Administration major credit.)
- 40.483 (2205.483) DIRECTED INDIVIDUAL RE-SEARCH (2-4) Research and reading dealing with a historical topic to be selected by the instructor and student, considerable attention to methodology. Prerequisites: Fifteen hours of history and a minimum average of 3.0 in history and consent of the instructor and the Department Chairperson.

- 40.489 (2205.489) ORAL HISTORY (3) Lectures, demonstrations, and extensive fieldwork in the techniques and methods essential to collecting tape recorded reminiscences of historical value. Topic to be selected by the instructor. Extra work will be required of graduate students and the course may not be taken more than one time. Prerequisite: Consent of the instructor and six hours of history appropriate to the topic.
- 40.490 (2205.490) INTERPRETIVE PROBLEMS IN HISTORY (3) An in-depth study of historical interpretations of selected topics. Prerequisite: Twelve hours of history.
- 40.491 (2205.491) BIOGRAPHICAL STUDIES IN HISTORY (3) A study of selected historical figures who have shaped or reflected the past. Figures to be selected by the instructor. Prerequisite: Six hours of history.
- 40.492 (2205.492) HISTORICAL THEMES (3) A study through lectures and discussions of a historical topic selected by the instructor. Prerequisite: Six hours appropriate to the subject as determined by the instructor.
- 40.493 (2205.493) PRACTICUM (2-6) Experience designed to combine the research and content of history with work in historical libraries, museums, archival depositories, and similar agencies. No more than six hours to be earned with any one agency. Prerequisite: Twenty-seven hours of history courses and consent of the Department Chairperson.
- 40.494 (2205.494) TRAVEL AND STUDY (3-6)
  Countries and topics to be selected by the
  Departments and instructors sponsoring the
  program. For complete information, write the
  Chairman of the Department early in the fall
  of the academic year preceding the semester
  of intended study. Prerequisite: Upper division status and consent of the instructor.
- 40.495 (2205.495) SEMINAR IN COMPARATIVE STUDIES (3) Reading and research in history or related disciplines approached from

### **Graduate Division**

- 40.599 (2205.599) SEMINAR IN UNITED STATES HISTORY TO 1865 (3) Research dealing with a phase of United States history to 1865 to be selected by the instructor. Prerequisite: Graduate standing, eighteen hours of history and consent of the instructor and the Department Chairperson.
- 40.600 (2205.600) SEMINAR IN UNITED STATES HISTORY SINCE 1865 (3) Research dealing with a phase of United States history since 1865 to be selected by the instructor. Prerequisite: Graduate standing, eighteen hours of history and consent of the instructor and the Department Chairperson.
- 40.661 (2205.661) SEMINAR IN NINETEENTH CENTURY EUROPEAN HISTORY (3) Research dealing with a phase of nineteenth century European history to be selected by the instructor. Prerequisites: Graduate standing, eighteen hours of history and consent of the instructor and the Department Chairperson.

- a viewpoint that is primarily historical and dealing with specific topics, problems, or developments selected by the instructor(s). Prerequisite: Consent of the instructor and fifteen hours of history including either 40.290 or 40.490 or 40.498, or six hours of history and a research methods course and six additional hours of the related discipline.
- 40.496 (2205.496) COLLOQUIUM (3) Group discussion of reading in history or related disciplines approached from a viewpoint that is primarily historical and dealing with broad periods, topics, problems or comparative developments selected by the instructor(s). Prerequisite: Consent of the instructor and fifteen hours of history or nine hours of history and six hours of the related discipline.
- 40.497 (2205.497) DIRECTED READING (2-4) Independent reading in history or related disciplines approached from a viewpoint that is primarily historical and dealing with specific periods, topics, problems or comparative developments selected by the student in consultation with the instructor(s). Prerequisite: Fifteen hours of history or nine hours of history and six hours of the related discipline and a minimum average of 3.00 in history and the related discipline and consent of the Department Chairperson.
- 40.498 (2205.498) PHILOSOPHY OF HISTORY (3)

  The philosophical foundations of historical knowledge; free will versus determinism; development from ancient times to the present of different philosophical interpretations of history. Prerequisite: Twelve hours of history or six hours of history and 6 hours of philosophy.
- 40.499 (2205.499) SENIOR THESIS (2-4) Research and the writing of a thesis, to be directed by a faculty member in a chosen area of specialization. Prerequisite: Admission to Departmental Honors Program.
- 40.662 (2205.662) SEMINAR IN TWENTIETH CENTURY EUROPEAN HISTORY (3) Research dealing with a phase of twentieth century European history to be selected by the instructor. Prerequisites: Graduate standing, eighteen hours of history and consent of the Department Chairperson.
- 40.683 (2205.683) DIRECTED INDIVIDUAL RE-SEARCH (2-4) Research and reading dealing with a historical topic to be selected by the instructor and student, considerable attention to methodology. Prerequisite: Graduate standing, eighteen hours of history or consent of the instructor and the Department Chairperson.
- 40.697 (2205.697) DIRECTED READING IN HISTORY (2-4) Independent reading in areas of history selected by the instructor and the student. Prerequisites: Graduate standing, eighteen hours of history and consent of the instructor and the Department Chairperson.

# International Studies

Coordinator: DAVID FIRMAN

#### I. Purpose:

To provide an interdisciplinary system of courses which will lead to an arts and science major in international studies, with opportunities to specialize in foreign areas. The major program is designed to prepare students for graduate studies, for careers in foreign service and other government agencies, and in commercial and industrial fields where foreign area specialists are required.

#### II. Organization and Administration:

The program is administered by a committee composed of one representative from each of the following disciplines: business administration, economics, geography and environmental planning, history, political science, and sociology. The current members of the Committee who will also serve as advisers to students majoring in international studies are: David Firman, Professor of Geography (Chairman of the Committee); Arnold Blumberg, Professor of History; David Dent, Professor of Political Science; Edwin Hirshmann, Professor of History; Abolmajd Hojjati, Professor of Sociology; Pritam Merani, Professor of Political Science; Henry Sanborn, Professor of Economics; and James Wallace, Professor of Business Administration.

### III. Scope:

All students majoring in international studies will complete 18 credit hours of required courses (indicated under IV A) and 27 credit hours of related electives under one of the two plans listed below:

#### Plan A — Functional Specialization (Non-Area)

Under this plan, students will complete 27 elective credit hours of courses related to international affairs without concentration on any geographical area.

#### Plan B — Area Specialization

This plan is designed to focus on important world regions. Students will complete 27 credit hours in related elective courses which concern a particular region. Area specialization on Asia (South, Southeast, and East) is currently available, in which students may select Asian courses as follows: (1) courses from at least three different departments, and (2) at least three courses from areas other than the one of specialization. The remaining credits may be completed by taking courses in any of the departments in consultation with an adviser. Specialization on Western Europe, Latin America and other regions are possible on a less formal basis.

#### IV. Major Requirements:

- A. Required courses for the major are as follows:
  - 1. Economics\* \_\_\_\_\_ 3 credit hours 24.315 Economic Development
    - 24.327 International Economics
  - 2. Geography and Environmental Planning\* \_\_\_\_\_ 3 credit hours 34.381 Political Geography
  - \_\_\_\_\_ 3 credit hours 3. History\* 40.370 Diplomatic History of the United States Since 1900

40.415 Diplomatic History of Europe 1815 to 1939 OR

40.479 A History of Diplomacy

4. Political Science\* \_\_\_\_\_ ---- 6 credit hours 68.303 Theory of International Politics 68.428 Political Theory

\_\_\_\_\_ 3 credit hours 5. Sociology\* \_\_\_\_\_ 10.207 Cultural Anthropology

80.357 Ideology, Power, and Society

B. Related Electives \_\_\_\_\_ \_\_\_\_27 credit hours These may be selected from any department which offers related electives, i.e.

sociology, English literature, languages, art, philosophy, etc. Such courses will be selected by students in consultation with advisers, in order to broaden and/or specialize as desired under Plans A or B.

#### C. Foreign Language:

A foreign language is required for the major. Students must select one of several languages in relation to their foreign area or functional interests as determined by their advisers. A student should be prepared to demonstrate a workable reading knowledge of that language. This requirement may be met by completing the intermediate course or equivalent of a modern foreign language.

#### V. Transfer Students:

Transfer Students must take a minimum of 18 credits of upper division courses in International Studies at Towson State to fulfill requirements for the major.

\* Please consult the College Bulletin for individual department prerequisites for these upper division courses. Most of the prerequisites can also be applied to the general college requirements.



# **Mathematics**

Professors: HANSON, HORAK (Chairman), PERREAULT, ZIMMERMAN Associate Professors: BECKEY, DAVIS, GRAVES, HASTE, SIEGEL, ZIPP

Assistant Professors: CHEN, CHINN, FISCHER, ILGENFRITZ, JONES, KAPLON, KIM, LIDTKE, NEUBERT, RIGGLEMAN, RUTENBERGS, SCHMITT, SMITH, SWENSEN, WAGNER

Instructors: JEFFERS, ROSE

The mathematics curriculum provides opportunities for students to do abstract reasoning applicable to many scientific or academic areas, to survey the field of mathematics, to study the applications of the discipline, to prepare for graduate work in mathematics, to become teachers of mathematics in the elementary and secondary schools, and to enter fields of industry and government requiring mathematics.

Any student submitting mathematics credits which are more than ten years old at the time the student is admitted or readmitted, may be asked, after the records are reviewed by the department chairman, to repeat the courses or to substitute new ones.

All students in the elementary education program or the early childhood education program are required to take both 50.204 and 50.205 or equivalent.

#### Placement

Each student should consult those portions of this catalog describing his major and minor programs to see whether specific mathematics courses are required or recommended.

It is recommended that those students having at least 1½ years of high school algebra, ½ year of trigonometry and ½ year of analytic geometry take the Mathematics Placement Test, which will cover the above subjects. Call 823-7500, ext. 296 before May 1st to register for this test. (It is expected that some, but not necessarily all, students who have had the above courses will enroll in Calculus I as an initial mathematics course at Towson. Those taking the Placement Test will be advised regarding placement in a mathematics course prior to registration.

Students should enroll in that mathematics course for which they have the necessary prerequisites, but for which they are not over-prepared.

50.111 and 50.211 are courses specifically designed for students of business, economics, psychology and other social sciences.

50.204 and 50.205 may be used to satisfy the group II general education requirements for elementary and early childhood education majors.

For other majors, any mathematics or computer science course (with the exception of 50.010, 50.204, 50.205, 50.321 and 50.323) may be used to satisfy the group II requirement.

#### Mathematics Minors

All mathematics minors are required to take 50.261, 50.273, 50.274 and enough mathematics courses above the 100 level, excluding 50.101 (201), 50.205, 50.211, 50.321, 50.323 and 50.423, to make a total of 20 semester hours. At least one upperdivision course, excluding computer science courses, must be taken; and at most one computer science course may be counted toward the minor. The program of the minor should be approved by the student's mathematics department advisor. (A minor in mathematics enables a student to meet the subject-matter requirements for a Maryland secondary school teacher's certificate to teach mathematics.)

# Mathematics Minor, Elementary Education Major

Elementary education majors who complete a mathematics minor will be certified to teach junior high school mathematics as well as elementary school. Students in this program must complete the requirements for the mathematics minor as listed in the preceding section. In addition, 50.204 must be taken among the twenty required hours, 50.231 and 50.351 are recommended. Special student teaching assignments are available so that the student will get experience in teaching mathematics in addition to the regular elementary experience. Students in this program should be advised by the chairman of the elementary education department and by a member of the mathematics department. (See also the Education Section of the Bulletin.)

# Mathematics Majors, Secondary Education Program

All mathematics majors who plan to be secondary school teachers are required to take 50.261, 50.273, 50.274, 50.353, 50.361 plus enough mathematics courses at the 300 and 400 level to make a total of 30 semester hours in mathematics. The required course, 50.423 may not be counted in these 30 hours. One of the Computer Science courses, 23.337 or 23.338, may be counted in these 30 hours, but not both. Physics 66.211 and 66.212, or 66.221 and 66.222, and Computer Science 23.235 are also required.

All students should do their student teaching in their senior year. Any student wishing to deviate from this policy must obtain permission from the Department of Mathematics, prior to the beginning of his junior year.

Secondary education mathematics majors are required to take 50.423 and at least three upper-division courses of their mathematics major program at Towson State College.

The Mathematics Department strongly advises those Secondary Education majors who plan to teach at the high school level to include 50.365: Linear Algebra and 50.373: Calculus III in their programs.

Students should consult the Education Department section in this Bulletin for additional course requirements for prospective secondary school teachers.

# Mathematics Majors, Arts and Science Program

All mathematics majors in an arts and science program (therefore not necessarily prospective teachers of mathematics) are required to take 50.261, 50.273, 50.274, 50.361, 50.365, 50.373, 50.473 and 50.474 plus enough 300 and 400 level mathematics courses to make a total of 36 semester hours in mathematics. One of the Computer Science courses, 23.337 or 23.338, may be counted in these 36 hours, but not both. Physics 66.211 and 66.212, or 66.221 and 66.222, and Computer Science 23.235 are also required.

Arts and science mathematics majors are required to take at least four upper-division courses of their mathematics major programs at Towson State College.

# Double Major in Mathematics and Economics

The purpose of this program is to enable students with mathematical ability and interest in applied mathematics to prepare for graduate study and careers in mathematical economics.

Students who wish to complete majors both in mathematics and economics are required to take 50.261, 50.273, 50.274, 50.331, 50.332, 50.361, 50.365, 50.373. 50.473, 50.474, 23.235, 24.101, 24.102, 24.309, 24.323, 24.335, 24.450, a minimum of two semester hours of mathematics courses at the upper level to make a total of 36 hours in mathematics (one of the courses 23,337 or 23,338 may be counted toward these 36 hours but not both), and six additional semester hours to be chosen from economics courses or 50.377.

Courses recommended are 50.209, 50.251, 50.435, 50.436, 50.471, 23.337, 23.338, 24.327, 24.337, and 24.407. However, 50.209 and 50.251 do not carry credit towards the mathematics major.

The following mathematics courses count simultaneously toward majors in economics and mathematics: 50.331, 50.332, and 50.337. Introduction to Computer Science, 23.235, which is required of mathematics majors, is also acceptable for the economics major. Thus one who takes all the mathematics and computer science courses which count toward the economics major need take only 18 hours of economics curses: 24.101-2, 309, 323, 335, and one other course.

Double majors who take Introduction to Mathematical Economics, 24.450, are excused from taking 8 hours of physics.

# Mathematics Majors and Minors

Mathematics majors or minors who receive a grade of D in a 100 level course prerequisite to calculus must repeat the course no later than concurrent with calculus.

Mathematics majors or minors must attain a grade of at least C in any 200, 300 or 400 level course used as a prerequisite. Unless otherwise noted, prerequisites must be satisfield prior to taking a course.

#### Mathematics Courses

A note on the numbering system: The left digit of the course number indicates the level of the content. The middle digit of the course number indicates the area of the content: zero-general; 1-service; 2-mathematics education; 3-probability and statistics, numerical analysis; 5-geometry; 6-algebra; 7-analysis; 9-readings, special topics, and seminars in mathematics.

COMMENCING WITH THE 1976-77 ACADEMIC YEAR, THE CURRENT ALPHABETICAL DESIGNATION "MATH" WILL BE REPLACED BY A NUMERIC CODE OF 1701.

#### Service Division

50.010 (1701.010) INTERMEDIATE ALGEBRA (0)
Real number system, solutions of equations
or inequalities in one and two variables, solutions of quadratic equations, exponents,

radicals, functions, polynominal algebra, progressions and complex numbers. Prerequisite: One year of high school algebra.

### Lower Division — Undergraduate

- 50.101 (1701.101) ELEMENTS OF MATHEMATICS
  (3) Topics selected from systems of numeration, logic, sets, algebraic properties of real numbers, abstract algebraic structures, probability, and geomery. Prerequisite: One year of high school algebra. (Not open to mathematics majors, mathematics minors, early childhood education or elementary education students or any students who have received credit for any college level mathematics course.)
- 50.111 (1701.111) ALGEBRA FOR APPLICATIONS
  (3) Intended primarily for students in business, economics, psychology and the social sciences. Included is an introduction to the real number system, inequalities, graphing of algebraic relations and basic algebraic techniques. The emphasis will be on applications of linear equations, matrices, determinants, linear programming and simple games. Prerequisites: Two years high school

- algebra or 50.010. (Not open to mathematics majors or minors.)
- 50.115 (1701.115) MATHEMATICS I (3) Real numbers and sets, equations and inequalities, functions (including logarithmic and exponential functions) and trigonometry. Prerequisites: High school geometry and two years of high school algebra; or 50.010.
- 50.116 (1701.116) MATHEMATICS II (3) Complex numbers; determinants; and analytic geometry of the line, plane, conics, and three-space surfaces. Prerequisite: 50.115 or two years high school algebra and ½ year trigonometry.
- 50.119 (1701.119) PRE-CALCULUS (3) Real numbers, functions (including exponential, logarithmic, trigonometric and circular functions), matrices and determinants, analytic geometry using vectors in two- and three-space. Prerequisite: 1½-2 years algebra, ½ year trigonometry and ½ year analytic geometry.

- 50.204 (1701.204) CONCEPTS OF MATHEMATICS FOR ELEMENTARY TEACHERS I (3) Logic, sets, systems of numeration, abstract systems, elements of number theory, and the development of the number system through the real numbers. Prerequisite: One year of high school algebra. (Required of all early childhood education and elementary education students. Satisfies mathematics requirement for these students. Not open to others.)
- 50.205 (1701.205) CONCEPTS OF MATHEMATICS FOR ELEMENTARY TEACHERS II (3) Elements of algebra, metric and non-metric geometry, probability, statistics, measurement. Prerequisite: 50.204. (This course or its equivalent is required of all early childhood education and elementary education students, except those who are also mathematics minors. Not open to others.)
- 50.209 (1701.209) MATHEMATICS OF FINANCE (3) Compound interest and discount, amortization, sinking funds, annuities, and elements of insurance. Prerequisite: 50.111 or 50.115 or 50.119 or equivalent. (No credit toward a mathematics major.)
- 50.211 (1701.211) CALCULUS FOR APPLICA-TIONS (3) Intended primarily for students in business, economics, psychology and the social sciences. Elements of differential and integral calculus from an intuitive standpoint with emphasis on the use of calculus in the above fields. Exponential and logarithmic functions, sequences and series included. Prerequisite: 50.111 or 50.115 or 50.116 or 50.119. (Not open to mathematics majors or minors.)
- 50.231 (1701.231) BASIC STATISTICS (3) Frequency distributions with emphasis on bino-

- mial and normal distributions, percentiles, measures of central tendency and variability, sampling theory, tests of hypotheses, regression analysis, correlations, and analysis of variance or time series. Emphasis will be placed on practical applications of statistics. Prerequisite: 50.111 or 50.115 or equivalent. (Not open to mathematics majors.)
- 50.251 (1701.251) GRAPH THEORY (3) A course designed as a general education mathematics course for students with an interest in the social sciences. Also of interest to elementary education majors. Covers concepts and uses of graph theory. Applications from sociology, economics, genetics, games, etc. Prerequisite: Three years high school mathematics or any college mathematics course or consent of instructor.
- 50.261 (1701.261) FUNDAMENTALS OF MATHE-MATICS (3) Logic, sets and functions, cardinality, introduction to algebraic structrues, and mathematical induction. Prerequisite: 50.116 or 50.119 or consent of instructor.
- 50.273 (1701.273) CALCULUS I (4) Functions, limits and continuity; introduction to sequences differentiation of algebraic, inverse, and transcendental functions; mean value theorem; differentials; completeness property of the real numbers; applications. Prerequisite: 50.116 or 50.119 or calculus course in high school or adequate score on Placement Test.
- 50.274 (1701.274) CALCULUS II (4) Definite and indefinite integrals, formal integration and applications; indeterminate forms; sequences and series of numbers, and power series. Prerequisite: 50.273.

#### Upper Division — Undergraduate and Graduate

Upper division courses not marked with an asterisk (\*) may be submitted for mathematics credit to the graduate school for the master's degree in education provided they have not been submitted for undergraduate credit.

- \*50.321 (1701.321) TEACHING MATHEMATICS IN EARLY CHILDHOOD EDUCATION (2 or 3) Materials of instruction and methods of presentation with emphasis on the discovery approach. Prerequisites: 50.204 and 50.205. (No credit toward a mathematics major or minor.)
- \*50.323 (1701.323) TEACHING MATHEMATICS IN ELEMENTARY SCHOOL (2 or 3) Nature of instruction, organization of units of instruction, provisions for developing understandings, new programs and research findings, and techniques of evaluation. Required of all elementary education majors. Prerequisites: 50.204 and 50.205. (No credit toward a mathematics major or minor.)
- 50.325 (1701.325) TEACHING MATHEMATICS IN THE MIDDLE SCHOOL (3) Philosophy, learning, teaching models, specific methods

- or approaches, planning for teaching and learning, and applicable contemporary curricula in the middle school mathematics curriculum. Prerequisites: 50.261 and 50.273 and approval of instructor. (No credit toward a mathematics major or minor.)
- 50.331 (1701.331) PROBABILITY (3) Probability in sample spaces, discrete and continuous random variables, distribution theory, Tchebyshev's theorem, central limit theorem, expected values and moments. Prerequisite: 50.274.
- 50.332 (1701.332) MATHEMATICAL STATISTICS (3) Sample theory and distributions, point estimation, confidence intervals, tests of hypotheses, regression, correlation and analysis of variance. Prerequisite: 50.331. (Offered only in the spring semester of the academic year.)
- \*50.351 (1701.351) ELEMENTS OF GEOMETRY (3) Designed to give the elementary education student additional background in geometry. Involves geometric definitions, vocabulary and techniques, constructions and scale

- drawings, and measurement of plane and space figures. Prerequisite: 50.205 or equivalent. (Not open to mathematics majors.)
- \*50.353 (1701.353) ELEMENTARY GEOMETRY FROM AN ADVANCED STANDPOINT (3) Review of synthetic Euclidian geometry; non-Euclidian geometries; finite geometries and systems of axioms; classical theorems; elementary transformations. Prerequisites: 50.261 and 50.273. (No credit toward a mathematics major for arts and science students.)
- 50.357 (1701.357) COLLEGE GEOMETRY (3)
  Projective geometry, both synthetic and analytic, including duality; Desargues theorem, harmonic sequences, Pappus theorem, homogeneous coordinates, conics, polarities.
  Prerequisites: 50.261 and 50.273. (Offered only in the fall semester of the academic year.)
- 50.361 (1701.361) ALGEBRAIC STRUCTURES (4) Groups, rings, fields, integral domains, and polynomial rings. Prerequisite: 50.261.
- 50.365 (1701.365) LINEAR ALGEBRA (3) Matrices, vector spaces, determinants, systems of linear equations, linear transformations, characteristic vectors and values, canonical forms. Prerequisite: 50.361.
- 50.367 (1701.367) THEORY OF NUMBERS (3) Theory of prime numbers, the division algorithm, the fundamental theorem of arithmetic, polynomials, congruences, number theoretic functions. Prerequisite: 50.261.
- 50.373 (1701.373) CALCULUS III (4) Differential and integral calculus of functions of several variables; differential and integral calculus of vector valued functions, including the divergence and Stokes theorems; selected topics from Fourier series, Laplace transform, special functions and differential equations. Prerequisite: 50.274.
- 50.377 (1701.377) MATHEMATICAL MODELS (3) Consideration of some mathematical problems in sociology, psychology, economics, management science and ecology, and developing appropriate mathematical models and techniques to solve them. Prerequisite: 50.274 or consent of instructor.
- \*50.423 (1701.423) TEACHING MATHEMATICS IN SECONDARY SCHOOLS (3) Objectives of mathematics instruction, examination of courses of study and textbooks, study of methods of teaching. Open only to students in the student teaching block. Prerequisites: 50.353 and 50.361. (No credit toward a mathematics major or minor.)
- 50.424 (1701.424) TEACHING THE METRIC SYSTEM (1) Methods and materials for the teaching of the metric system in the elementary school and junior high schools. Prerequisites: A methods course in teaching mathematics or previous teaching experience.
- 50.425 (1701.425) METHODS AND MATERIALS FOR MATH LAB INSTRUCTION (1-3) Examination of and experiences with commer-

- cial and teacher-made materials designed for a laboratory (activity centered) approach to learning mathematics. Prerequisites: A methods course in teaching mathematics (50.321, 323, 423) or previous teaching experience.
- 50.427 (1701.427) READINGS IN MATHEMATICS EDUCATION FOR THE ELEMENTARY SCHOOL TEACHER (1-3) Directed study for the teacher of elementary school mathematics. Prerequisites: 50.321 or 50.323 and approval of instructor. (No credit toward a mathematics major.)
- 50.429 (1071.429) READINGS IN MATHEMATICS EDUCATION FOR THE SECONDARY SCHOOL TEACHER (1-3) Directed study for the teacher of secondary school mathematics. Prerequisite: Consent of instructor. (No credit toward a mathematics major for arts and science students.)
- 50.435 (1701.435) NUMERICAL ANALYSIS I (3) Error analysis, interpolation, numerical differentiation and integration, numerical solution of algebraic equations and of systems of algebraic equations. Prerequisites: 23.235 and 50.274. (Offered only in the fall semester of the academic year.)
- 50.436 (1701.436) NUMERICAL ANALYSIS II (3) Numerical solution of differential equations. Least squares and its applications, linear programming and extensions of the concepts of 50.435. Prerequisite: 50.435. (Offered only in the spring semester of the academic year.)
- 50.451 (1701.451) MATH RESEARCH IN GRAPH THEORY (3) A course designed to give an advanced mathematics major the opportunity to do independent, significant research in a field of mathematics through graph theory. Topics may include Hamiltonian and Eulerian graphs, coloring graphs, planar and non-planar graphs, connectivity problems and isomorphic graphs. Prerequisite: Consent of instructor.
- 50.457 (1701.457) DIFFERENTIAL GEOMETRY (3)
  Curvatures of curves and surfaces in E<sub>3</sub>, geodesics, invariants, mappings and special surfaces. Prerequisite: 50.373.
- 50.461 (1701.461) ADVANCED TOPICS IN ALGE-BRA (3) Extension of the concepts of 50.361. Prerequisite: 50.365 (Offered only in the fall semester of the academic year.)
- 50.471 (1701.471) DIFFERENTIAL EQUATIONS
  (3) Theory and application of linear ordinary differential equations. Solutions of non-linear ordinary differential equations of the first order. Prerequisite: 50.274.
- 50.473 (1701.473) ADVANCED CALCULUS I (3)
  Dedekind cuts; Euclidian spaces; compact
  and connected sets, continuity, uniform continuity, limits, sequences and completeness
  in a metric space; Heine-Borel theorem;
  Weierstrass theorem; numerical sequences
  and series; differentiation, mean value theo-

- rem and differentiation of vector valued functions, Prerequisites: 50,261 and 50,274.
- 50.474 (1701.474) ADVANCED CALCULUS II (3) Riemann-Stieltjes integral, sequences and series of functions, convergence and uniform convergence, Stone-Weierstrass theorem, and functions of several variables: Prerequisite: 50.473. (Offered only in the spring semester of the academic year.)
- 50.475 (1701.475) COMPLEX ANALYSIS (3) Complex number system, analytic functions, Cauchy's integral theorem and integral formula, Taylor and Laurent series, isolated singularities, Cauchy's residue theorem and

- conformal mappings. Prerequisite: 50.373. (Offered only in the fall semester of the academic year.)
- 50.477 (1701.477) TOPOLOGY (3) Basic concepts of pointset topology, separation axioms, compact and connected spaces, product and quotient spaces, convergence, continuity and homeomorphisms. Prerequisite: 50.473. (Offered only in the spring semester of the academic year.)
- 50.491 (1701.491) READINGS IN MATHEMATICS (1-3) Independent reading in selected areas of mathematics. Prerequisite: Consent of instructor. (Open only to seniors.)

#### Graduate Division

- 50.501 (1701.501) HISTORY OF MATHEMATICS (3) An historical survey of the classical roots of contemporary mathematics with selected topics chosen from number theory, geometry, analysis and algebra. Prerequisites: 50.274; 50.353 or 50.357; and 50.361.
- 50.521 (1701.521) SEMINAR IN TEACHING ARITH-METIC (3) Analysis of new topics, techniques, and materials in arithmetic instruction. Prerequisite: 50.321 or 50.323. (No credit toward a mathematics major or minor.)
- 50.525 (1701.525) SEMINAR IN MATHEMATICS EDUCATION (3) An investigation of recent curricula, methods, and materials in secondary school mathematics instruction. Prerequisite: 50.423 or equivalent.
- 50.530 (1701.530) STATISTICS AN INTEGRAT-ED APPROACH (4) Theory and practices of basic statistical analysis and inference with emphasis on analyzing and solving real problems using statistics. Descriptive statistics, introduction to probability, sampling distributions, estimation, hypothesis testing, regression, correlation, non-parametric techniques and analysis of variance, computer programming incorporated throughout. Prior knowledge of programming is not necessary. (Not open to those who have had 50.332.) Prerequisites: 50.274. (3 hours lecture, 2 hours lab.)

- 50.531 (1701.531) TOPICS IN PROBABILITY (3) Review of basic probability theory, types of convergence and limit theorems, elementary stochastic processes, Markov chains, birth and death processes, Gaussian processes. Examples and applications from engineering physical and social sciences, management and statistics. Prerequisites: 50.331.
- 50.553 (1701.553) TOPICS IN GEOMETRY (3) Axiomatic development of Euclidian, elliptic and hyperbolic geometries; the study of the analytic plane, the sphere and the Poincaré model, as models for these axiomatic systems. Prerequisites: 50.274 and 50.361.
- 50.561 (1701.561) ELEMENTS OF GALOIS THE-ORY (3) Review of elementary group theory, polynomial rings, algebraic field extensions, Galois theory for fields of characteristic 0, solution of polynomial equations by radicals, other applications of Galois theory. Prerequisites: 50.365.
- 50.591 (1701.591) SEMINAR IN MATHEMATICAL APPLICATIONS (3) Survey of topics to be chosen from linear programming, theory of games, mathematical biology, econometrics, mathematical ecology, Fourier Analysis, integral equations, partial differential equations, diffusion, stochastic processes, production theory, statistical mechanics, fluid dynamics, Prerequisites: 50.373.

#### COMPUTER SCIENCE COURSES

(A program within the Mathematics Department)

Associate Professor: GRAVES

Assistant Professors: LIDTKE, SCHMITT

Students interested in computer oriented careers in teaching, research, business, engineering, or applied mathematics should consider minoring in this program. Staff members will aid students in designing programs to meet their needs.

### Computer Science Minor:

All computer science minors are required to take 18 semester hours in Computer Science, of which 12 hours must be courses on the 300 and 400 level. Numerical Analysis (50.435 and 50.436) may be counted towards a computer science minor.

COMMENCING WITH THE 1976-77 ACADEMIC YEAR, THE CURRENT ALPHABETICAL DESIGNATION "COSC" WILL BE REPLACED BY A NUMERIC CODE OF 0701.

### Lower Division — Undergraduate

- 23.211 (0701.211) INTRODUCTION TO DATA PROCESSING (3) An introduction to the concepts of data processing: definitions, historical background, punched card systems, computer systems, basic concepts of programming, I/O devices, source data, operating systems and data communication.
- 23.212 (0701.212) COBOL PROGRAMMING (3) Study of COBOL language with students writing, testing and debugging programs, using cards, tapes, and disks. Applications will be from business data processing, including payroll, accounting, inventory, file maintenance and simulation. Prerequisites: 23.211 and 16.201 or consent of instructor.
- 23.235 (0701.235) FUNDAMENTALS OF COMPUT-ING (3) A first course in computing to provide the student with the requisite knowledge and experience to use computers effectively in the solution of numeric and non-numeric

problems. Two lecture hours and two laboratory hours. Prerequisite: Two years of high school algebra or equivalent.

23.237 (0701.237) DATA STRUCTURES AND SORTING TECHNIQUES (3) The course will investigate such topics as manipulation of linear sequential lists, singly and doubly linked lists, array representation, trees and other multilinked structures, dynamic storage allocation, and sorting techniques on various media. Choice of the type of data structure for a given application will be related to the type of data, available storage media, and information required from the data. Various sorting and searching algorithms will be examined and evaluated from the viewpoint of tradeoffs among space, speed, and ease of programming. Prerequisites: Familiarity with at least one high level programming language.

### Upper Division — Undergraduate and Graduate

Upper division courses not marked with an asterisk (\*) may be submitted for computer science credit to the graduate school for the master's degree in education provided they have not been submitted for undergraduate credit.

- 23.313 (0701.313) PRACTICUM IN PERIPHERALS (3) A course limited to students preparing to teach data processing, giving practical experience with peripheral data processing equipment. Ten hours of laboratory per week in a data processing facility with varied supervised experiences. Evaluation by data processing facility supervisor and instructor. Prerequisite: 23.212.
- 23.315 (0701.315) SURVEY OF PROGRAMMING LANGUAGES (3) Survey of the significant features of existing programming languages with emphasis on understanding the concepts abstracted from those languages. The course covers: algorithmic languages such as ALGOL, problem oriented languages such as SNOBOL, theoretically interesting lan-

- guages such as LISP, and general purpose languages such as FORTRAN and PL/1. Prerequisites: 23.235 and 23.212 or 23.337.
- 23.337 (0701.337) INTRODUCTION TO COMPUT-ER SCIENCE I (3) Explores algorithms using a scientific programming language such as FORTRAN. Computer organization, the representation of information in the computer, machine coding and storage devices are topics to be covered. Prerequisite: 23.235.
- 23.338 (0701.338) INTRODUCTION TO COMPUT-ER SCIENCE II (3) Introduces the concepts of hardware and software systems. The hardware concepts of logic design, microprogramming, machine architecture and design are covered. Software systems such as assemblers, macros, loaders, and couplers are covered. An ALGOL type language is used to apply programming techniques to several projects. Recent developments in the computer field are analyzed. Prerequisite: 23.337.

- 23.339 (0701.339) PROGRAMMING SYSTEMS (3) This course introduces the student to basic computer organization, machine language programming and the use of assembly language programming. Emphasis will be on the overall structure of machines and programming systems. Prerequisite: 23.212 or 23.338.
- 23.411 (0701.411) SYSTEMS AND DESIGN (3) A course designed to guide the student through the stages of the evolution of data processing systems including analyses of present information flow, system specifications, equipment selection, and the implementation of the system to provide an understanding of the skill and knowledge needed for the effective use of data processing equipment in meeting information needs. Prerequisite: 23.339.
- 23.431 (0701.431) SELECTED TOPICS IN COM-PUTER SCIENCE (1-3) Independent studies

- in selected areas of computer science. This course may be taken more than once, but one may not accumulate more than four (4) credits. Prerequisite: Consent of instructor and nine hours of computer science.
- 23.437 (0701.437) FILE AND DATA STRUCTURES (3) This is a study of the relations which hold among elements of data involved in problems, the structures of storage media and machines, the methods which are useful in representing structured data in storage, and the techniques of storing data; strings, arrays, linear and orthogonal lists. The representation of trees and graphs is covered. Storage systems and structures, symbol tables, searching techniques and sorting techniques are developed. Formal specification of data structures in programming languages and generalized data management systems are investigated. Prerequisite: 23.339.



# Modern Languages

Professors: MAGILL, VIDAL-LLECHA, J. SHEETS
Associate Professors: CACOSSA, GIRO, McDERMOTT

Assistant Professors: EVANS (Chairman), HAUPT, LEVNO, POIRIER

Visiting Lecturers: LEETCH, LIMA

The purposes of the Modern Language Department are to offer language electives to all students of the college, to offer the requirements for the teaching of a modern foreign language, and to offer a major or minor in French, German, and Spanish to students interested in acquiring reading comprehension and ability to converse with intelligibility in one or more of these languages. Russian, Chinese, Portugese, Hebrew, Japanese, Kiswahili, and Italian courses are offered on the lower levels and will be expanded as required by interest.

# Language Major

A major consists of a minimum of 30 credit hours beyond the intermediate level in the major language, as indicated in the outlines below; no more than half of the 30 credit hours may be transferred from other colleges; each major program includes at least 9 hours of literature courses at the 400 level. Any modification of this program, including adjustments for courses taken abroad, must be approved in writing by the department chairman. Teacher education candidates should note that the advanced grammar course is to be taken before they do their practice teaching. Students with home or family background in the language studied will have their programs, as described below, modified according to their proficiency in the language.

Major Program in French & German composition & conversation (6 hours) survey of literature (6 hours) 18 hours of electives from within the department's offerings in the target language, including 9 hours of literature courses at the 400 level (18 hours)

Major Program in Spanish

composition & conversation (6 hours)
survey of literature (6 hours)
culture & civilization (6 hours)
12 hours of electives from
within the department's
offerings in the target

offerings in the target language, including 9 hours of literature

courses at the 400 level (12 hours)

30 hours

# 30 hours

# Language Minor

The minor officially does not exist at Towson State College. The term "minor" refers to the Maryland State Department of Education teaching certificate requirement. These are either (a) 24 hours of college credit in the particular language, or (b) 18 hours if two or more years were absolved in a secondary school after the ninth grade. In addition, Education 27.353 is required of teacher candidates.

# Policies Concerning Language

The second semester of an elementary language course must be completed successfully before credit is granted for the first semester's work.

The completion of the intermediate level, or its equivalent, is required of all candidates for the Bachelor of Arts degree. This requirement may be met by (a) completing two or more years of the language in high school plus the intermediate level course in college, (b) completing the elementary and inter-

mediate level courses in the language in college, (c) successfully completing an equivalence examination administered by the Department of Modern Languages at Towson State College, (d) successfully completing one semester of any course beyond the intermediate level or (e) successfully completing a credit for experience examination at the 300 level.

Students who present two or more years of a language from high school and wish to continue in that language are normally placed in the intermediate course in college, since the college elementary course would be a repetition of the work already taken in high school; these students may not receive college credit for the elementary course without permission from the department. Qualified students may enroll in the advanced courses (300 level) after consultation with the department.

#### MODERN LANGUAGE COURSES

32.475, 36.475, 82.475 (1102.475, 1103.475, 1105.475) USE OF AUDIO-VISUAL TECH-NIQUES IN MODERN LANGUAGE TEACH-ING (3, 3, 3) Principles of design and components of communication will be presented. Demonstrations on basic materials production will be given. Students will be required to make materials and show how their materials can be used in foreign language instruction. Prerequisites: Previous teaching experience or consent of the department.

32.483, 36.483, 82.483 (1102.483, 1103.483, 1105.483) SPECIAL TOPICS IN FOREIGN LANGUAGE TEACHING (3, 3, 3) Studies in the area of language teaching techniques with changing emphasis from year to year. Prerequisite: Consent of the department.

### CHINESE COURSES (GEST)

COMMENCING WITH THE 1976-77 ACADEMIC YEAR, THE CURRENT ALPHABETICAL DESIGNATION "GEST" WILL BE REPLACED BY A NUMERIC CODE OF 4901.

### Lower Division—Undergraduate Only

33.111-112 (4901.111-112) ELEMENTARY MOD-ERN CHINESE I, II (3, 3) The first and second of a series of four courses in Chinese Language. An introduction to standard modern Chinese (Mandarin). Emphasis is on

reading and writing of Chinese. Pin Yin, the phonetic system of pronouncing Chinese words is introduced. Text, sound tape and vocabulary cards.

### FRENCH COURSES (FREN)

COMMENCING WITH THE 1976-77 ACADEMIC YEAR, THE CURRENT ALPHABETICAL DESIGNATION "FREN" WILL BE REPLACED BY A NUMERIC CODE OF 1102.

#### Lower Division —Undergraduate

32.101-102 (1102.101-102) FRENCH ELEMENTS I, II (4, 4) A thorough foundation in grammar; drills in pronunciation; elementary conversation; composition and translation; introduction to French culture.

# Upper Division — Undergraduate Only

- 32.301-302 (1102.301-302) FRENCH COMPOSI-TION AND CONVERSATION I, II (3, 3) Intensive exercises in French composition and conversation beyond the intermediate level. Prerequisites: 32.201-202 or equivalent. Conducted in French.
- 32.303 (1102.303) FRENCH STYLISTICS (3) Development of writing skills with stress on language structure and important aspects of style. Prerequisite: 32.301-302 or equivalent. Conducted in French.
- 32.311 (1102.311) FRENCH CULTURE AND CIVI-LIZATION (3) A brief survey of the history,

32.201-202 (1102.201-202) FRENCH INTERMEDI-ATE I, II (4, 3) Review of grammar; conversation and prose composition; reading of texts of cultural value; outside readings. Prerequisite: 32.101-32.102 or equivalent. Conducted in French.

geography, and institutions of France. Prerequisite: 32.301-32.302 or equivalent. Conducted in French.

- 32.321, 322 (1102.321, 322) SURVEY OF FRENCH LITERATUE I, II (3, 3) French literature from Chanson de Roland to the present. Prerequisite: 32.201-202 or equivalent. Conducted in French.
- 32.331 (1102.331) FRENCH FOR BUSINESS (3) Reading, speaking and writing practice for simple business transactions in French, as an introduction to specific training in functional areas of foreign trade. Basic business

correspondence and dictation, practical situation dialogues, translation and analysis of economic and financial news. (Team taught with cooperation of Business Administration Department.) Prerequisite: 32.201-202, its equivalent, or consent of instructors. 32.391 (1102.391) ADVANCED FRENCH GRAM-MAR (3) French syntax, idiomatic construction, word formation. Conversation, oral and written drill. Prerequisite: 32.301, 32.302. Conducted in French.

### Upper Division — Undergraduate and Graduate

- 32.325 (1102.325) MASTERPIECES OF FRENCH LITERATURE IN TRANSLATION (3) An intensive study of English translations of a limited selection of works chosen from the acknowledged masterpieces of French literature, presented in chronological order (not open to French majors). Prerequisite: English 30.102.
- 32.401 (1102.401) FRENCH PHONETICS (3) The pronunciation of contemporary French; drill in pronunciation. Prerequisite: completion of intermediate French 32.201, 202.
- 32.402 (1102.402) APPLIED FRENCH LINGUIS-TICS (3) Phonetics, morphology, syntax, points of interference. Linguistic study relating to methodology for French teachers. Prerequisites: 32.301-302 or equivalent. Conducted in French.
- 32.421 (1102.421) FRENCH LITERATURE OF THE SEVENTEENTH CENTURY I (3) Principal works of the major writers in poetry, drama, philosophy, criticism, and the novel, to about 1660. Prerequisite: 32.321, 322 or equivalent. Conducted in French.
- 32.422 (1102.422) FRENCH LITERATURE OF THE SEVENTEENTH CENTURY II (3) Continua-of French 32.421 from 1660 to 1700. Prerequisite: 32.321, 322 or equivalent. Conducted in French.
- 32.425 (1102.425) FRENCH LITERATURE OF THE EIGHTEENTH CENTURY (3) Principal works of the major writers with the concurrent literary and philosophical trends. Prerequisite: 32.321, 322 or equivalent. Conducted in French.
- 32.431 (1102.431) FRENCH LITERATURE OF THE NINETEENTH CENTURY I (3) The rise, flowering, and decline of Romanticism, with the contemporary writers outside the movement. Prerequisite: 32.321, 32.322 or equivalent. Conducted in French.
- 32.432 (1102.432) FRENCH LITERATURE OF THE NINETEENTH CENTURY II (3) The major literary figures and doctrines of the latter half of the nineteenth century. Prerequisite: 32.321, 322 or equivalent. Conducted in French.
- 32.437 (1102.437) WOMEN IN FOREIGN LITERA-TURES IN TRANSLATION (3) A study of the writings and the image of women in languages other than English. Changing emphasis from semester to semester: focus on a theme, a period or a geographical area. Prerequisites: Three English courses, including 30.102 or 30.104, or permission of the instructor. Credit cannot be applied towards a major in a language.

- 32.441 (1102.441) FRENCH LITERATURE OF THE TWENTIETH CENTURY I (3) From Gide, Proust, Valéry, Péguy, and Claudel to the Second World War. Prerequisite: 32.321, 322 or equivalent. Conducted in French.
- 32.442 (1102.442) FRENCH LITERATURE OF THE TWENTIETH CENTURY II (3) Sartre, Camus, Anouilh, and other present-day writers. Prerequisite: 32.321, 322 or equivalent. Conducted in French.
- 32.451-452 (1102.451-452) FRENCH POETRY I, II (3, 3) The development of French poetry from the Middle Ages to the present day. Conducted in French. Prerequisite. 32.321, 322.
- 32.461-462 (1102.461-462) FRENCH DRAMA I, II (3, 3) The development of French drama from the Middle Ages to the present day. Conducted in French. Prerequisite: 32.321, 322.
- 32.470 (1102.470) SPECIAL TOPICS IN FRENCH
  (3) Discussion of a central topic with changing emphasis from year to year. Prerequisites: 32.321-322 Survey of French Literature, or the equivalent.
- 32.471 (1102.471) THE FRENCH NOVEL I (3) From the 17th century to Flaubert (theory of the novel as a genre, the novel from Préciosité to "La Princesse de Clèves" in the 17th century, the picaresque and philosophical novel in the 18th century, Balzac and Stendhal in the 19th century). Prerequisite: 32.321, 322 or equivalent. Conducted in French.
- 32.472 (1102.472) THE FRENCH NOVEL II (3) From Flaubert to the "Nouveau Roman" (evolution of the novel from Flaubert to Proust, Gide, Malraux, Giono and the theories of the "Nouveau Roman", Robbe-Grillet and Butor). Prerequisite: 32.321, 322 or equivalent. Conducted in French.
- 32.487-488 (1102.487-488) TRAVEL AND STUDY ABROAD (4-19) Study in a French University. Students will live and take courses at the University of Clermont-Ferrand, France. Dates: Choice of October through June (2 semesters) or February through June (1 semester). Prerequisite: Three years of college French or equivalent.
- 32.491 (1102.491) DIRECTED READING IN FRENCH LITERATURE (3) Reserved for superior students under the guidance of a department advisor. Prerequisite: at least three hours of literature study at the 400 level. Conducted in French.

32.492 (1102.492) DIRECTED READING IN FRENCH (3) Similar to 32.491 with concentration on a different subject matter. Prereq-

uisite: at least three hours of literature study at the 400 level. Conducted in French.

#### **Graduate Division**

- 32.505 (1102.505) ETUDES ET TRAVAUX STYLIS-TIQUES (3) Practice in writing and comparison of style of various writers. Intensive and detailed explications de texte. Discussion, oral and written reports. Prerequisite: Undergraduate degree in French. Conducted in French.
- 32.533-534 (1102.533-534) SEMINAR ON FRENCH CLASSICISM I, II (3, 3) The origins and underlying ideas of classicism. Study of main classic writers, with shifting emphasis from year to year. Prerequisite: Undergraduate degree in French. Conducted in French.
- 32.538 (1102.538) SEMINAR IN 18TH CENTURY FRENCH LITERATURE (3) The literature of the French Enlightenment, concentrating on one or two major authors, with shifting emphasis from year to year. Prerequisite: Undergraduate degree in French. Conducted in French.
- 32.539 (1102.539) THE ROMANTIC ERA IN FRANCE (3) Sources and theories of French Romanticism. Works of major French roman-

tic writers, with shifting emphasis from year to year. Prerequisite: Undergraduate degree in French. Conducted in French.

- 32.543-544 (1102.543-544) PERSPECTIVES DE CRITIQUE LITTERAIRE EN FRANCE (3, 3) A history of French literary criticism leading to the study of the various techniques and objectives of all literary criticism and analysis eventuating in the application of these techniques by the student himself to selected works of French Literature. Prerequisite: Undergraduate degree in French. Conducted in French.
- 32.699 (1102.699) THESIS (6) Optional for students in the French Master of Arts program. Prerequisite: Undergraduate degree in French. Conducted in French.
- 32.571 (1102.571) SPECIAL TOPICS IN FRENCH LANGUAGE, LITERATURE AND CIVILIZA-TIONS (3) Grand Mouvements Littéraires en France du IXX et XX Siècles. Prerequisite: Undergraduate degree in French. Conducted in French.

### GERMAN COURSES (GERM)

COMMENCING WITH THE 1976-77 ACADEMIC YEAR, THE CURRENT ALPHABETICAL DESIGNATION "GERM" WILL BE REPLACED BY A NUMERIC CODE OF 1103.

#### Lower Division — Undergraduate

36.101-102 (1103.101-102 GERMAN ELEMENTS I, II (4, 4) A thorough foundation in grammar; drills in pronunciation; elementary conversation; composition and translation.

36.201-202 (1103.201-202) GERMAN INTERMEDI-

ATE I, II (4, 3) Review of grammar; conversation and prose composition; reading of texts of cultural value. Prerequisite: 36.101-102 or equivalent. Conducted in German.

# Upper Division — Undergraduate Only

- 36.301-302 (1103.301-302) COMPOSITION AND CONVERSATION I, II (3, 3) Composition and conversation beyond intermediate level. Prerequisite: 36.201-202 or equivalent. Conducted in German.
- 36.303 (1103.303) GERMAN STYLISTICS (3) Development of writing skills with stress on language structure and important aspects of style. Prerequisite: 36.301-302 or the equivalent.
- 36.311 (1103.311) CULTURE AND CIVILIZATION
  (3) A brief survey of the history, geography, and institutions of Germany. Prerequisite:

36.201-202 or equivalent. Conducted in German.

- 36.321-322 (1103.321-322) SURVEY OF GERMAN LITERATURE I, II (3, 3) German literature from the Hildebrandslied to the present. Prerequisite: 36.201-202 or equivalent. Conducted in German.
- 36.391 (1103.391) ADVANCED GERMAN GRAM-MAR (3) German syntax, idiomatic construction, word formation, original composition. Conversation and oral drill. Prerequisite: 36.301-302. Conducted in German.

# Upper Division — Undergraduate and Graduate

36.325 (1103.325) MASTERPIECES OF GERMAN LITERATURE IN TRANSLATION (3) An intensive study of English translations of a

number of acknowledged masterpieces of German literature. Not open to German majors. Prerequisite: English 30.102.

- 36.401 (1103.401) GERMAN PHONETICS (3) The pronunciation of contemporary German, drill in pronunciation. Prerequisite: Completion of intermediate German 36.201-202.
- 36.411 (1103.411) MEDIEVAL GERMAN LITERA-TURE (3) Special emphasis on the flowering period of epic and lyric poetry. Readings are in New High German translation. Prerequisite: 36.321-322 or equivalent. Conducted in German.
- 36.421 (1103.421) HUMANISM, REFORMATION AND THE BAROQUE (3) A survey of the philosophy and literature from the end of the Middle Ages to 1750. Prerequisite: 36.321-322 or equivalent. Conducted in German.
- 36.425 (1103.425) PRE-CLASSICISM (3) German literature from the end of the Baroque to the beginnings of Classicism. Focus on the Aufklärung and Strum und Drang. Prerequisite: 36.321-322 or equivalent. Conducted in German.
- 36.427-428 (1103.427-428) CLASSICISM I, II (3, 3) First semester; the beginnings of German classicism: Goethe, Schiller, Lessing; second semester: the later works of Goethe and Schiller. Prerequisite: 36.321-322 or equivalent. Conducted in German.
- 36.431 (1103.431) ROMANTICISM (3) German literature during the Romantic era (1790-1830). Hölderlin, Novalis, Tieck, Brentano, Grillparzer. Prerequisite: 36.321-322 or equivalent. Conducted in German.
- 36.432 (1103.432) REALISM (3) A study of German literary realism from the Vormärz through Poetic Realism. Heine, Büchner, Hebbel, Wagner, Keller, Fontane. Prerequisite: 36.321-322 or equivalent. Conducted in German.
- 36.441 (1103.441) MODERN GERMAN LITERA-TURE (3) The modern masters: Kafka, Mann, Hesse, Rilke, Brecht. Prerequisite:

- 36.321-322 or equivalent. Conducted in German.
- 36.442 (1103.442) GERMAN LITERATURE SINCE 1945 (3) Themes and movements since World War II. Poetry. Eich, Enzensberger, Celan, Bachmann; prose fiction: Böll, Grass; drama: Borchert, Dürrenmatt, Frisch. Prerequisite: 36.321-322 or equivalent. Conducted in German.
- 36.451 (1103.451) STUDIES IN THE GERMAN LYRIC (3) Focus on a particular period, movement or author, to be determined after consultation with majors. Prerequisite: 36.321-322 or equivalent. Conducted in German
- 36.461 (1103.461) GERMAN DRAMA OF THE 19TH AND 20TH CENTURIES (3) The development of modern German drama in the successive literary movements, beginning with Kleist. Prerequisite: 36.321-322 or equivalent. Conducted in German.
- 36.465 (1103.465) GOETHE'S FAUST (3) A study of the background, themes and structures of this masterpiece. Prerequisite: 36.321-322 or equivalent. Conducted in German.
- 36.471 (1103.471) THE GERMAN NOVEL (3) A study of the origins and development of the genre in German literature. Prerequisite: 36.321-322 or equivalent. Conducted in German.
- 36.481 (1103.481) THE GERMAN NOVELLE (3)
  The theory and development of the Novelle
  in German literature from Goethe to the
  present. Prerequisite: 36.321-322 or equivalent. Conducted in German.
- 36.491-492 (1103.491-492) DIRECTED READINGS IN GERMAN (3, 3) Reserved for superior students under the guidance of a departmental advisor. Content related to student's previous program. Prerequisite: at least three hours of study at the 400 level.

### HEBREW COURSES (HEBR)

COMMENCING WITH THE 1976-77 ACADEMIC YEAR, THE CURRENT ALPHABETICAL DESIGNATION "HEBR" WILL BE REPLACED BY A NUMERIC CODE OF 1111.

#### Lower Division — Undergraduate

- 39.101-102 (1111.101-102) ELEMENTS OF HE-BREW I, II (3, 3) An introduction to Hebrew. Speaking, reading, and writing, the development of conversational ability, free composition, and translation from English into Hebrew. Credit given on completion of both semesters.
- 39.201-202 (1111.201-202) HEBREW INTERMEDIATE I, II (3, 3) A continued review of grammatical structure with emphasis on conversational and reading fluency. Vocabulary building, composition and reading and discussion of selected outside readings. Prerequisites: 39.101-102.

#### ITALIAN COURSES (ITAL)

COMMENCING WITH THE 1976-77 ACADEMIC YEAR, THE CURRENT ALPHABETICAL DESIGNATION "ITAL" WILL BE REPLACED BY A NUMERIC CODE OF 1104.

#### Lower Division — Undergraduate

- 46.101-102 (1104.101-102) ITALIAN ELEMENTS I, II (4, 4) A thorough foundation in grammar; drills in pronunciation; elementary conversation; composition and translation.
- 46.201-202 (1104.201-202) ITALIAN INTERMEDIATE I, II (4, 3) Review of grammar, conversation and prose composition; translation of texts of cultural value; outside readings. Prerequisite: 46.101-102 or equivalent.

### Upper Division — Undergraduate Only

- 46.301-302 (1104.301-302) ITALIAN COMPOSITION AND CONVERSATION I, II (3, 3) Composition and conversation beyond the intermediate level. Prerequisite: 46.201-202. Conducted in Italian.
- 46.321-322 (1104.321-322) SURVEY OF ITALIAN LITERATURE I, II (3, 3) A thorough examination of Italian literature from the thirteenth century to the present. Prerequisite: 46.201-202. Conducted in Italian.

### JAPANESE COURSES (GEST)

COMMENCING WITH THE 1976-77 ACADEMIC YEAR, THE CURRENT ALPHABETICAL DESIGNATION "GEST" WILL BE REPLACED BY A NUMERIC CODE OF 4901.

#### Lower Division — Undergraduate

- 33.105-106 (4901.105-106) JAPANESE ELEMENTS
  I, II (3, 3) Development of elementary vocabulary and sentences, forms of written language, conversation, composition and translation. This course will be given using the
  techniques of programmed instruction.
- 33.205-206 (4901.205-206) JAPANESE INTERME-DIATE III, IV (3, 3) Review of elementary Japanese; intermediate Kanji; conversation and prose composition; translations; outside readings commensurate with the ability of individual student. This course will be given using the techniques of programmed instruction. Prerequisite: Completion of 33.105-106.

#### PORTUGUESE COURSES (GEST)

COMMENCING WITH THE 1976-77 ACADEMIC YEAR, THE CURRENT ALPHABETICAL DESIGNATION "GEST" WILL BE REPLACED BY A NUMERIC CODE OF 4901.

#### Lower Division — Undergraduate

- 33.107-108 (4901.107-108) PORTUGUESE ELE-MENTS I, II (4, 4) A thorough foundation in grammar; drills in pronunciation; elementary conversation; composition and translation.
- 33.207-208 (4901.207-208) PORTUGUESE INTER-MEDIATE I, II (4, 3) Review of grammar, conversation and prose composition; translation of texts of cultural value; outside readings. Prerequisite: 33.107-108 or equivalent.

# RUSSIAN COURSES (RUSS)

COMMENCING WITH THE 1976-77 ACADEMIC YEAR, THE CURRENT ALPHABETICAL DESIGNATION "RUSS" WILL BE REPLACED BY A NUMERIC CODE OF 1106.

#### Lower Division — Undergraduate

- 74.101-102 (1106.101-102) RUSSIAN ELEMENTS I, II (3, 3) A thorough foundation in grammar; drills in pronunciation, elementary conversation; composition and translation.
- 74.201-202 (1106.201-202) RUSSIAN INTERMEDI-ATE I, II (3, 3) Review of grammar; conversation and prose composition; translation of texts of cultural value; outside readings. Prerequisite: 74.101-102 or equivalent.

# SPANISH COURSES (SPAN)

COMMENCING WITH THE 1976-77 ACADEMIC YEAR, THE CURRENT ALPHABETICAL DESIGNATION "SPAN" WILL BE REPLACED BY A NUMERIC CODE OF 1105.

#### Lower Division — Undergraduate

- 82.101-102 (1105.101-102) SPANISH ELEMENTS
  I, II (4, 4) Thorough foundation in grammar; drills in pronunciation; elementary conversation; composition and translation.
- 82.201-202 (1105.201-202) SPANISH INTERMEDI-

# Upper Division — Undergraduate Only

- 82.301-302 (1105.301-302) COMPOSITION AND CONVERSATION I, II (3, 3) Composition and conversation beyond intermediate level. Prerequisite: 82.201-202 or equivalent. Conducted in Spanish.
- 82.311 (1105.311) CULTURE AND CIVILIZATION OF THE SPANISH-SPEAKING PEOPLES I

- ATE I, II (4, 3) Review of grammar; conversation and prose composition; reading of texts of cultural value; outside readings commensurate with the ability of the individual student. Prerequisite: 82.101-102 or equivalent. Conducted in Spanish.
- (3) Value-system and way of life as embedded in the language, history, arts and customs of Spain. Prerequisite: 82.301-302 or equivalent. Conducted in Spanish.
- 82.312 (1105.312) CULTURE AND CIVILIZATION OF THE SPANISH-SPEAKING PEOPLES II
  - (3) Value-system and way of life as em-

- bedded in the language, history, arts and customs of Ibero-America. Prerequisite: 82.301-302 or equivalent.
- 82.321-322 (1105.321-322) SURVEY OF SPANISH LITERATURE I, II (3, 3) Spanish and Spanish-American literature, with collateral read-
- ings. Prerequisite: 82.201-202 or equivalent. Conducted in Spanish.
- 82.391 (1105.391) ADVANCED SPANISH GRAM-MAR (3) Spanish syntax, idiomatic construction, word formation, original composition. Conversation and oral drill. Prerequisite: 82.301, 82.302. Conducted in Spanish.

### Upper Division — Undergraduate and Graduate

- 82.235 (1105.235) MASTERPIECES OF SPANISH LITERATURE IN TRANSLATION (3) An intensive study of English translations of a limited selection of works chosen from the acknowledged masterpieces of Spanish literature, presented in chronological order (not open to Spanish majors). Prerequisite: 30.102.
- 82.401 (1105.401) SPANISH PHONETICS (3) The pronunciation of contemporary Spanish, drill in pronunciation. Prerequisite: Completion of intermediate Spanish 82.201-202.
- 82.402 (1105.402) SPANISH LINGUISTICS (3)
  The linguistic structure of the Spanish language with an introduction to transformational grammar. Prerequisite: 82.301-302 or equivalent. Conducted in Spanish.
- 82.417-418 (1105.417-418) THE GOLDEN AGE IN SPANISH LITERATURE I, II (3, 3) Principal attention to Cervantes, Tirso de Molina, Lope de Vega, and Ruiz de Alarcón; Góngora and his role. Prerequisite: 82.321-322 or equivalent. Conducted in Spanish.
- 82.431 (1105.431) NINETEENTH CENTURY SPAN-ISH LITERATURE (3) The main literary movements of the century: neo-classicism, romanticism, realism, naturalism, and special emphasis on "costumbrismo." Prerequisite: 82.321-322 or equivalent. Conducted in Spanish.
- 82.435 (1105.435) NINETEENTH CENTURY SPAN-ISH-AMERICAN LITERATURE I (3) Principal works of the major writers to about 1860. Prerequisite: 82.321-322 or equivalent. Conducted in Spanish.
- 82.436 (1105.436) NINETEENTH CENTURY SPAN-ISH-AMERICAN LITERATURE II (3) Principal works of the major writers from 1860-1900. Prerequisite: 82.321-322 or equivalent. Conducted in Spanish.
- 82.441 (1105.441) TWENTIETH CENTURY SPAN-ISH LITERATURE I (3) Special attention to the literary movement called "The Generation of '98'." Prerequisite: 82.321-322 or equivalent. Conducted in Spanish.
- 82.442 (1105.442) TWENTIETH CENTURY SPAN-ISH LITERATURE II (3) The writers of the last thirty years. Prerequisite: 82.321-322 or equivalent. Conducted in Spanish.
- 82.443 (1105.443) TWENTIETH CENTURY SPAN-ISH-AMERICAN LITERATURE I (3) Modern-

- ism to the Contemporary Period. Prerequisite. 82-321-322 or equivalent. Conducted in Spanish.
- 82.444 (1105.444) TWENTIETH CENTURY SPAN-ISH-AMERICAN LITERATURE II (3) The Contemporary Period. Prerequisite: 82.321-322 or equivalent. Conducted in Spanish.
- 82.451 (1105.451) SPANISH POETRY I (3) Special emphasis on Gustavo Adolfo Bécquer, Rubén Darío, Antonio Machado. Prerequisite: 82.321-322 or equivalent. Conducted in Spanish.
- 82.452 (1105.452) SPANISH POETRY II (3) Emphasis on the poets of the generation of 1927, Pablo Neruda, and Vicente Aleixandre. Prerequisite: 82.321-322 or equivalent. Conducted in Spanish.
- 82.461 (1105.461) SPANISH DRAMA I (3) Nineteenth and early twentieth century. Prerequisite: 82.321-322 or equivalent. Conducted in Spanish.
- 82.462 (1105.462) SPANISH DRAMA II (3) Contemporary playwrights such as Casona, Usigli, and Vallejo. Prerequisite: 82.321-322 or equivalent. Conducted in Spanish.
- 82.471 (1105.471) SPANISH NOVEL I (3) Emphasis will be given to Benito Pérez Galdós and Pío Baroja. Prerequisite: 82.321-322 or equivalent. Conducted in Spanish.
- 82.472 (1105.472) SPANISH NOVEL II (3) Emphasis on contemporary writers including: Camilo José Cela, Miguel Angel Asturias, Ramón Sender, Juan Goytisolo. Prerequisite: 82.321-322 or equivalent. Conducted in Spanish.
- 82.481 (1105.481) SPANISH SHORT STORY (3)
  The short story in Spain and Spanish America with emphasis on twentieth century authors. Prerequisite: 82.321-322 or equivalent. Conducted in Spanish.
- 82.491 (1105.491) DIRECTED READING IN SPAN-ISH LITERATURE (3) Reserved for superior students under the guidance of a departmental advisor. Prerequisite: At least three hours of literature study at the 400 level. Conducted in Spanish.
- 82.492 (1105.492) DIRECTED READING IN SPAN-ISH (3) Similar to Span 491 with concentration on a different subject matter. Prerequisite: At least three hours of literature study at the 400 level. Conducted in Spanish.

#### Graduate Division

- 82.503 (1105.503) HISTORY OF THE SPANISH LANGUAGE (3) Survey of the development of the Spanish language from its origins to present day in Spain and in Spanish-America. Prerequisite: Undergraduate degree in Spanish.
- 82.505 (1105.505) SPANISH STYLISTICS (3) Intensive and detailed analysis of selected texts. Discussion and oral reports. Required weekly compositions. Prerequisite: Undergraduate degree in Spanish.
- 82.521 (1105.521) SEMINAR IN MIGUEL DE UNA-MUNO (3) Life's tragedy: conflict between reason and faith as shown in his novels, theatre, essays, and poetry. Prerequisite: B.A. or 18 hours credit of Spanish beyond intermediate or permission of the instructor. Conducted in Spanish.
- 82.531 (1105.531) SEMINAR ON BENITO PEREZ GALDOS (3) His vision of the condition of man in XIXth-Century Spain and his effort to improve society by changing individual behavior. Prerequisite: B.A. degree in Spanish. Conducted in Spanish.
- 82.535 (1105.535) SPANISH LITERATURE OF THE MIDDLE AGES (3) Reading, discussion and

- analysis of early Spanish literature. Prereguisite: Undergraduate degree in Spanish.
- 82.536 (1105.536) POETRY & DRAMA OF THE SPANISH GOLDEN AGE (3) Study of major writers of the Siglo de Oro, with shifting emphasis from year to year. Prerequisite: B.A. degree in Spanish. Conducted in Spanish.
- 82.539 (1105.539) CRITICAL APPROACHES TO SPANISH LITERATURE (3) Study and analysis of the formal aspects of selected Spanish literary texts. Prerequisite: Undergraduate degree in Spanish.
- 82.541 (1105.541) SEMINAR IN RAMON DEL VALLE-INCLAN (3) Analysis and discussion of the works of Ramón del Valle-Inclan. Prerequisite: Undergraduate degree in Spanish.
- 82.551 (1105.551) SEMINAR IN PIO BAROJA (3) Analysis and discussion of the works of Pío Baroja. Prerequisite: Undergraduate degree in Spanish.
- 82.553 (1105.553) MIGUEL DE CERVANTES (3) Don Quijote de la Mancha and the Novelas Ejemplares, reading and detailed analysis. Prerequisite: Undergraduate degree in Spanish.



# Music

Professors: ALPER, ARRINGTON (Chairman), MYERS

Associate Professors: COULANGE, DRUCKER, DURO, GRISWOLD, MARCHAND, RAUSCHENBERG, REYES

Assistant Professors: CRAWFORD, CYR, LAWRENCE, LEVY, MELICK, MERANI, MOORE, RICHARDSON, TAN, TERWILLIGER

Instructors: ANTHONY, BLAKE, GENNUSA, HOFFMAN, JEZIC, MINGER, MURDICK, PALANKER, PHILLIPS, FINKELSTEIN, FRANKEL, CHESTER, KELLY, BARNES, WATTS, WATANABE

For the non-major, or general student, the purposes are to give opportunities for enrichment of cultural background and creative expression; for the music major, the purposes are to give professional training so that he will attain a high standard of artistic performance, be prepared to teach, and be qualified in his chosen field. Ample opportunity is given for student participation in musical organizations and ensembles which provides both valuable experience, and contributes to the cultural life of the College and the Community.

Non-Majors may elect any music course for which they have the prerequisites. Participation in musical organizations is open to all interested students. There is an additional fee for private lessons and registration for same must be made with the consent of the Music Department Chairman.

# Music Major

Students wishing to major in music or music education should write to the Chairman of the Music Department at the time they make application to Towson State College through the Director of Admissions.

A placement examination in performance and music theory will be given prospective applicants on the third Saturday in May preceding their college admission. The purpose of this examination is to aid the Music Department in determining the most satisfactory curriculum pattern for the individual student.

Students who do not satisfactorily pass the audition and/or the theory placement examination will either be accepted on a probationary basis or their applications will be rejected as music majors.

Each music major is required to choose a primary instrument or voice, and study with teachers provided by Towson State College. Every music major enrolled in private lessons will perform before a faculty jury at the end of each semester of private study.

Every Music Major (except the BA in Music Literature or Music Theory) will perform a senior recital on his primary performing medium as a requirement for graduation. Senior Recital may not be given during same semester as student teaching. Every music major will take a piano proficiency examination at the end of the sophomore year. Student may repeat examination until satisfactory completion which must be done before student teaching and/or graduation. Instrumental Majors may meet the piano proficiency requirement by satisfactorily completing two semesters of class piano with a minimum grade of B. Requirements may be procured in the Music Department office.

Each music major is required to participate in music ensembles as listed below:

The following number of music credits are required for graduation in the various music degree programs: BS (Music Education), instrumental major, 67 credits plus an additional 12 credits in Student Teaching; BS (Music Education), vocal major, 64 credits plus an additional 12 credits in Student Teaching; BA (Performance, Music Literature, and Music Theory) requires 73 credits.

The academic program in music will be determined on an individual basis

for each transfer student based upon transcript evaluation, placement examination, and audition by the Music Department.

The Department of Music offers the following two courses of study:

- 1. A course of study preparing students to teach music as specialists, leading to a Bachelor of Science Degree in Music Education.
  - Requirements: (a) General Education Requirements for all students; (b) Music Theory 16 credits; Private Lessons 7 credits minimum, more credits required if not adequately prepared for senior recital; Voice Class (Instrumental Majors) 1 credit, (Piano, Guitar Majors) 2 credits; Music Organizations (Choirs, Bands, Orchestra, etc.) 6 semesters; Music Literature for Majors 3 credits; Music History 6 credits; Class Instrument Lessons, String, Brass, Percussion, Woodwind, (Instrumental Majors) 2 credits of each, (EXCEP-TION: Brass Majors take only second semester of Brass Class, Percussion Majors take only first semester of Percussion Class), (Vocal Majors) 1 credit; conducting 3 credits; Music in the Elementary Schools 3 credits (Music Majors section); Methods of Teaching Instrumental Music or Methods of Teaching Choral and General Music in the Secondary Schools 3 credits; Organization and Administration of Music Education 3 credits; Choral and Instrumental Arranging 3 credits; Form and Analysis 3 credits; General Psychology 3 credits; Educational Psychology 3 credits; Foundations of Education 3 credits; Survey of Education 3 credits; Student Teaching (both elementary and secondary) 12 credits.
- 2. A course of study in the field of arts and sciences leading to a Bachelor of Arts degree with emphasis in performance, music theory, or music literature. The Bachelor of Arts degree in music is a program designed for the study of music within a liberal arts curriculum with a broad coverage of the field. The burden of study should be upon the literature of music designed to develop basic musicianship, the ability to perform the literature well, and provide a set of principles and terms that lead to a fuller intellectual grasp of the art. It means to give an appropriate background for prospective candidates for advanced degrees who are preparing for such careers as musicology, composing, and performance.

Requirements: (a) General Education Requirements. (b) Foreign language requirement, complete intermediate level. (c) Music Course Requirements:

BA in PERFORMANCE: Music Theory 16 credits; Private Lessons 16 credits; Music Literature for Majors 3 credits; Music History 6 credits; Music Organization 8 semesters; Form and Analysis 3 credits; Conducting 3 credits; Pedagogy and Practice 3 credits; Literature Survey in Major 3 credits; Electives (liberal arts) 3 credits, (Music) 9 credits; Recital.

BA in MUSIC LITERATURE: Music Theory 16 credits; Private Lessons 8 credits; Music Organization 8 semesters; Music Literature for Majors 3 credits; Music History 6 credits; Counterpoint 3 credits; Form and Analysis 3 credits; Choral and Instrumental Arranging 3 credits; Advanced Music History 15 credits; Elective 9 credits; Research in Music 3 credits.

BA in MUSIC THEORY: Music Theory 16 credits; Private Piano (and Class Piano) 8 credits (Private Lessons in sophomore, junior, and senior year may be in area other than piano with approval of theory advisor); Voice Class 1 credit; Music Organization 8 semesters; Music Literature for Majors 3 credits; Music History 6 credits; Counterpoint 3 credits; Choral and Instrumental Arranging 6 credits; Composition 8 credits; Form and Analysis 3 credits; Conducting 6 credits; Electives 9 credits.

All performance (except guitar and keyboard majors), theory, and music literature majors are required to participate and be enrolled in six semesters of the Group A Ensembles and six semesters of the Group B ensembles listed

below: GROUP A ENSEMBLES: (Instrumental) Concert Band, Orchestra, Wind Ensemble, Jazz Ensemble. (Vocal) Concert Choir, Men's Glee Club, Women's Chorus, Community Chorus. GROUP B ENSEMBLES: (Instrumental) Brass Ensemble, Clarinet Choir, Early Music Ensemble, Flute Ensemble, Percussion Ensemble, Saxophone Ensemble, String Ensemble, Woodwind Ensemble. (Vocal) Early Music Ensemble, Madrigals, Octet, Opera Workshop. Two semesters of Group A may be substituted for two of the semesters in Group B at the option of student.)

Guitar performance majors are required to participate in 8 semesters of Group A Ensembles which also includes Guitar Ensemble. Piano and Organ performance majors are required to participate in 8 semesters of ensemble, six of which must be "Ensemble Accompanying."

#### MUSIC COURSES (MUSC)

COMMENCING WITH THE 1976-77 ACADEMIC YEAR, THE CURRENT ALPHABETICAL DESIGNATION "MUSC" WILL BE REPLACED BY THE NUMERIC CODES OF 1005 FOR MUSIC AND 0832 FOR MUSIC EDUCATION.

### Lower Division — Undergraduate

- 54.101 (1005.101) INTRODUCTION TO MUSIC LITERATURE (3) Music literature to acquaint the student with music through class discussions and listening. Suggested course for the General Education requirement.
- 54.102 (1005.102) MUSIC LITERATURE FOR MUSIC MAJORS (3) Introduction to the great musical works of the Western world primarily through listening, class discussion, and study of scores. Required of all Music Majors. Prerequisites: Music Major.
- 54.103 (1005.103) INTRODUCTION TO TWENTI-ETH CENTURY MUSIC (3) A study of art music composed since 1900 through class discussions and listening. Suggested course for the general education requirements.
- 54.111-112 (1005.111-112) WIND ENSEMBLE (1, 1) Study and performance of advanced wind literature by a small band of selected instrumentalists. Audition required. Prerequisites: Audition and permission of instructor.
- 54.131-132 (1005.131-132) MUSIC THEORY I AND II (4, 4) The study and practice of sight singing, ear training and harmony in integrated course. Prerequisite for Theory I: Ability to read treble and bass clefs and knowledge of major and minor scales. Prerequisite for Theory II: Theory I.
- 54.139-140 (1005.139-140) GUITAR ENSEMBLE (1, 1) Study and performance of guitar ensemble music. Required of all Guitar majors. May be repeated with credit. Prerequisites: Audition required.
- 54.141-142 (1005.141-142) BRASS ENSEMBLE (1,
  1) Study and performance of advanced brass literature, required of all students majoring in brass instruments. Admission by permission of the director. May be repeated with credit.
- 54.145-146 (1005.145-146) PERCUSSION ENSEM-BLE (1, 1) Study and performance of advanced percussion literature; supplement

- and improve the percussion student's musical training by acquainting the student with the various techniques involved in performing on the numerous percussion instruments. Required of all percussion majors. May be repeated with credit.
- 54.149-150 (1005.149-150) STRING ENSEMBLE (1, 1) Study and performance of advanced string literature, required of all students majoring in string instruments. Admission by permission of the director. May be repeated with credit.
- 54.151-152 (1005.151-152) VOICE ENSEMBLE (1,
  1) Small group study and performance of
  advanced choral literature. Admission by
  permission of director. May be repeated with
- 54.153-154 (1005.153-154) WOODWIND ENSEMBLE (1, 1) Study and performance of advanced woodwind literature required of all students majoring in woodwind instruments, by permission of the director. May be repeated with credit.
- 54.155-156 (1005.155-156) CLARINET CHOIR (1, 1) Study and performance of clarinet choir literature. Open to all students by audition. May be repeated with credit.
- 54.157-158 (1005.157-158) JAZZ ENSEMBLE (1, 1) Study and performance of music of the jazz idiom. Open to all students by audition. May be repeated with credit.
- 54.171-172 (1005.171-172) BRASS PRIVATE LES-SONS (1-3) Private lessons in brass. Fee of \$50.00 per semester per credit. One halfhour private lesson per week per credit plus one hour class lesson per week. Permission of dept. chairperson.
- 54.173-174 (1005.173-174) ORGAN PRIVATE LES-SONS (1-3) Private lessons in organ. Fee of \$50.00 per semester per credit. One halfhour private lesson per week per credit plus one hour class lesson per week. Permission of dept. chairperson.

- 54.175-176 (1005.175-176) PERCUSSION PRIVATE LESSONS (1-3) Private lessons in percussion. Fee of \$50.00 per semester. One half-hour lesson per week per credit plus one hour class lesson per week. Permission of dept. chairperson.
- 54.177-178 (1005.177-178) PIANO PRIVATE LES-SONS (1-3) Private lessons in piano. Fee of \$50.00 per semester per credit. One halfhour lesson per week per credit plus one hour class lesson per week. Permission of dept. chairperson.
- 54.179-180 (1005.179-180) STRING PRIVATE LES-SONS (1-3) Private lessons in strings. Fee of \$50.00 per semester per credit. One halfhour lesson per week per credit plus one hour class lesson per week. Permission of dept. chairperson.
- 54.181-182 (1005.181-182) VOICE PRIVATE LES-SONS (1-3) Private lessons in voice. Fee of \$50.00 per semester per credit. One halfhour lesson per week per credit plus one hour class lesson per week. Permission of dept. chairperson.
- 54.183-184 (1005.183-184) WOODWIND PRIVATE LESSONS (1-3) Private lessons in woodwinds. Fee of \$50.00 per semester per credit. One half-hour lesson per week per credit plus one hour class lesson per week. Permission of dept. chairperson.
- 54.185-186 (1005.185-186) GUITAR PRIVATE LES-SONS (1-3) Private lessons in guitar. Fee of \$50.00 per semester per credit. One halfhour lesson per week per credit plus one hour class lesson per week. Permission of dept. chairperson.
- 54.187-188 (1005.187-188) COMPOSITION PRI-VATE LESSONS (1-3) Private lessons in composition. Fee of \$50.00 per semester. One half-hour private lesson per week per credit plus one hour class lesson per week. Permission of dept. chairperson.
- 54.201 (1005.201) OPERA WORKSHOP (2) Basic techniques of stage movement and related aspects of opera production. Musical and dramatic preparation of operatic scenes and roles. Participation in operatic performances. Can be retaken for a maximum of 4 credits. Prerequisites: Permission of instructor.
- 54.211-212 (1005.211-212) BRASS CLASS (1, 1) Class instruction in brass instruments.
- 54.215-216 (1005.215-216) PERCUSSION CLASS (1, 1) Class instruction in percussion instruments.
- 54.217-218 (1005.217-218) PIANO CLASS (1, 1) Class instruction in piano playing, with one hour daily practice in preparation required. Open to beginning students and students with a minimum of piano work, by permission of the department chairman.
- 54.219-220 (1005.219-220) STRING CLASS (1, 1) Class instruction in string instruments.
- 54.221-222 (1005.221-222) VOICE CLASS (1, 1)

- Class instruction in singing, with emphasis upon basic singing techniques and voice production through the use of song material.
- 54.223-224 (1005.223-224) WOODWIND CLASS (1, 1) Class instruction in woodwind instruments.
- 54.225-226 (1005.225-226) GUITAR CLASS (1, 1) Class instruction in guitar.
- 54.229 (1005.229) CONDUCTING LABORATORY ENSEMBLE (1) Study and performance of ensemble music from elementary through secondary school levels. Provides performance experience for students on secondary instruments. Also provides conducting experience for students enrolled in Conducting Class. Music education majors required to take two semesters. Prerequisite: 54.211 or 54.219 or 54.223 or 54.215 or equivalent.
- 54.231-232 (1005.231-232) THEORY III AND IV (4, 4) The study and practice of sight singing, ear training, and harmony in an integrated course. Prerequisite for Theory III: Theory II. Prerequisite for Theory IV: Theory III.
- 54.233 (0832.233) MUSIC FUNDAMENTALS (2) Basic music skills and experience in the use of music instruments for prospective kindergarten and elementary teachers.
- 54.236 (1005.236) PERCUSSION WORKSHOP (1)
  Covers performance concepts and teaching concepts on all percussion instruments; class type lessons on auxiliary percussion; learning to maintain and repair mallets and instruments; learning to "custom make" beaters, holders, etc.; learning to write for percussion; rehearsing and conducting percussion solo and ensemble literature. Prerequisite: Open only to percussion majors in Music.
- 54.243 (1005.243) RECORDER CLASS (1) Studying and performing works written particularly for the recorder. This course cannot be used towards fulfillment of the College's General Education Requirements. Prerequisites: Ability to read music.
- 54.257-258 (1005.257-258) PEP BAND (1, 1) Wind ensemble which performs at various college functions such as athletic events, assemblies, etc. Prerequisite: Consent of instructor. May be repeated for credit.
- 54.259-260 (1005.259-260) COMMUNITY CHORUS (1, 1) Study and performance of advanced choral literature. Admission by permission of the director. May be repeated with credit.
- 54.261-262 (1005.261-262) CONCERT CHOIR (1, 1)
  Study and performance of advanced choral
  literature. Open to all students with audition.
  May be repeated with credit.
- 54.263-264 (1005.263-264) MEN'S GLEE CLUB (1, 1) Study and performance of choral literature written and arranged for male voices. Open to all male students by permission of director. May be repeated with credit.

- 54.265-266 (1005.265-266) WOMEN'S CHORUS (1, 1) Study and performance of choral literature for female voices. Open to all females students by permission of director. May be repeated with credit.
- 54.267-268 (1005.267-268) ORCHESTRA (1, 1) Study of orchestral literature. Open to all students by audition. May be repeated with credit.

### Upper Division — Undergraduate

- 54.301-302 (1005.301-302) HISTORY OF MUSIC I, II (3, 3) Study of development of music in the western world through discussion, performance and recording. First semester includes music from the Greeks to the end of the Baroque period. Second semester traces the development of music from the Classic period to the present.
- 54.307 (0832.307) TEACHING MUSIC IN THE ELEMENTARY SCHOOLS (2, 3) Acquaints students with music programs in the elementary school through lecture, class discussion, and practice with children. Prerequisite: 54.233.
- 54.308 (0832.308) METHODS OF TEACHING IN-STRUMENTAL MUSIC (3) Methods and materials in the instruction of instrumental music, elementary through secondary. Prerequisite: To be taken with student teaching.
- 54.309 (0832.309) METHODS OF TEACHING CHORAL AND GENERAL MUSIC IN THE SECONDARY SCHOOL (3) Methods and materials in the instruction of a general music program for the non-performing student, and a choral program for the perform-

- 54.269-270 (1005.269-270) CONCERT BAND (1, 1)

  The Board provides opportunities to perform a wide variety of literature, and to utilize the organization as a laboratory for conducting experience and performing on a secondary instrument for qualified students. Audition required.
- 54.271-288 (1005.271-288) PRIVATE LESSONS (1-3) Refer to 171-188 for course description, fee and time.
  - ing student. Prerequisite: Taken with student teaching.
- 54.311-312 (1005.311-312) ACCOMPANYING I, II (3, 3) Study of vocal and instrumental accompanying with emphasis upon sight reading, transposition, and acquaintance with vocal and instrumental literature. Permission of instructor.
- 54.327 (1005.327) CHORAL CONDUCTING (3) Group instruction in basic conducting techniques and interpretation with relation to choral organizations. Prerequisite: 54.132 or permission of instructor.
- 54.329 (1005.329) INSTRUMENTAL CONDUCTING
  (3) Group instruction in basic conducting techniques and interpretation with relation to instrumental organizations. Prerequisite: 54.132 or permission of instructor.
- 54.335 (1005.335) CHORAL AND INSTRUMENTAL ARRANGING (3) Composition and arranging techniques for voices and/or instruments. Prerequisite: 54.231-54.232, equivalent, or permission of instructor.
- 54.371-388 (1005.371-388) PRIVATE LESSONS (1-3) Refer to MUSIC 171-188 for course description, fee and time.

#### Upper Division — Undergraduate and Graduate

- 54.401 (1005.401) MUSIC PRIOR TO 1600 (3)
  The art of music in the West from its tentative beginnings in Greek and Hebrew music to the year 1600 A.D. Prerequisite: Consent of Department Chairman.
- 54.402 (1005.402) MUSIC OF THE BAROQUE PERIOD (3) Style, forms and musical techniques from 1600 to 1750. Prerequisite: Consent of Department Chairman.
- 54.403 (1005.403) MUSIC OF THE CLASSICAL PERIOD (3) Styles, forms and techniques of the period from 1750-1820. Particular emphasis is placed on instrumental categories of the string quartet, sonata, symphony and concerto as illustrated in the works of Haydn, Mozart and Beethoven. Attention is given to operatic and sacred compositions of the same masters. Prerequisite: Consent of Department Chairman.
- 54.404 (1005.404) MUSIC OF THE ROMANTIC PERIOD (3) Musical styles, forms and techniques in the 19th century with special attention to the intellectual foundations of the

- Romantic movement. Prerequisite: Consent of Department Chairman.
- 54.405 (1005.405) CONTEMPORARY MUSIC (3) Styles, forms and musical techniques since 1900. Prerequisite: Consent of Department Chairman.
- 54.406 (1005.406) SURVEY OF SOLO VOICE LITERATURE (3) A musical survey of the solo art-song form circa 1750 to the present. Prerequisite: 54.232 or consent of instructor.
- 54.407 (1005.407) COUNTERPOINT (3) A study of the polyphonic practices employed in 18th century tonal counterpoint. Prerequisite: 54.232.
- 54.408 (0832.408) ORGANIZATION AND ADMINISTRATION OF MUSIC EDUCATION (3) Seminar discussion of the problems of organization and administration of music education. Prerequisite: Music Student Teaching, and/or consent of the instructor.
- 54.411 (1005.411) SURVEY OF OPERA (3) Study of opera literature of various periods and styles. Consent of Department Chairman.

- 54.412 (1005.412) WIND ENSEMBLE (1) Study and performance of advanced wind literature by a small band of selected instrumentalists. Audition required. Prerequisites: Audition and permission of instructor.
- 54.413 (1005.413) SYMPHONIC LITERATURE (3)
  Orchestral music from the baroque to the present. The concerto, symphony, overture and other orchestral forms are examined.
  Prerequisite: Consent of Department Chairman.
- 54.419 (0832.419) WORKSHOP: ASPECTS OF STRING TEACHING (2) An extension course to be offered in the Maryland Regional Center for the Arts near Emmittsburg, Md. A series of lectures, concerts, and rehearsals designed to enrich the experience of the string teacher and those interested in teaching strings in the public schools. Students will be offered either forty-five contact hours or thirty hours and an individual project. Sessions will be either one or two weeks in length. Prerequisites: Fulfillment of all requirements for teacher certification in instrumental music before taking course.
- 54.421 (1005.421) AMERICAN MUSIC (3) American music from the Colonial Period to the present. Prerequisite: Consent of Department Chairman.
- 54.423 (1005.423) HISTORY OF JAZZ (3) Development of jazz and its peripheral effects upon music.
- 54.424 (1005.424) ADVANCED WOODWINDS (Double Reeds) (3) Study of advanced techniques on bassoon and oboe. Special emphasis given to reed-making and instrument repair. Prerequisites: 54.223, or consent of instructor.
- 54.425 (1005.425) ADVANCED PERCUSSION (3) Study of advanced performance techniques on all percussion instruments. Prerequisite: Music 54.215, or consent of instructor.
- 54.427-428 (1005.427-428) JAZZ ARRANGING I, II (3, 3) Study and practice of arranging of standard material for Jazz Ensembles. Prerequisite: 54.232 or consent of instructor.
- 54.429-430 (1005.429-430) JAZZ IMPROVISATION I, II (3, 3) Study and practice of improvising in various jazz styles. Prerequisite: 54.231-232 or consent of instructor.

#### Graduate Division

- 54.501 (0832.501) CURRENT TRENDS IN MUSIC AND MUSIC EDUCATION (3) A survey of current philosophies and objectives of music in the schools, and the scope and sequence of the music curricula, vocal and instrumental, on the elementary and secondary levels. Prerequisite: Admission to Graduate Program.
- 54.515 (1005.515) THE CONCERTO (3) A survey of the concerto form from its inception to the present. Analysis of stylistic, formal, and

- 54.431 (1005.431) ADVANCED CHORAL AND IN-STRUMENTAL ARRANGING (3) Advanced arranging techniques including the scoring of original and other works for various combinations of instruments and/or voices. Prerequisite: 54.335, or equivalent, or consent of instructor.
- 54.433 (1005.433) ADVANCED THEORY (3)
  Continued development of skills in more
  advanced melodic, harmonic and rhythmic
  aspects of music through hearing, playing
  and writing. Prerequisite: 54.232.
- 54.435 (1005.435) FORM AND ANALYSIS (3) Analysis of vocal and instrumental literature. Prerequisites: 54.231-54.232.
- 54.449-450 (1005.449-450) STRING ENSEMBLE (1, 1) Study and performance of advanced string literature, required of all students majoring in string instruments. Admission by permission of director. May be repeated with credit.
- 54.459-460 (1005.459-460) COMMUNITY CHORUS (1, 1) Study and performance of advanced choral literature. May be repeated with credit.
- 54.467-468 (1005.467-468) ORCHESTRA (1, 1) Study of orchestral literature. Open to all students by audition. May be repeated with credit.
- 54.469-470 (1005.469-470) CONCERT BAND (1, 1) Study and performance of band literature. Open to all students by audition. May be repeated with credit.
- 54.471-488 (1005.471-488) PRIVATE LESSONS (1-3) Refer to MUSIC 171-188 for course description, fee and time.
- 54.493 (1005.493) INDEPENDENT RESEARCH IN MUSIC LITERATURE (1-4 credits undergraduate; 3 credits graduate) Supervised research and musicological investigation of a selected topic culminating in a written senior thesis. May be repeated with credit. Prerequisite: 54.301, 54.302, and six hours of Advanced Music Hist. courses.
- 54.499 (1005.499) SENIOR RECITAL (1) Recital performance for graduation requirement. Prerequisites: Minimum of 6 credits of Private Lessons and approval of Department Chairman. Undergraduate credit only.
  - compositional aspects will be included. Prerequisite: Admission to Graduate standing with Music Major, or Consent of Department Chairman.
- 54.539 (1005.539) MUSIC COMPOSITION (3) Analysis and discussion of works of major composers. Writing of original compositions in vocal and instrumental idioms. Prerequisites: 54.232, 54.335, 54.435.
- 54.561 (1005.561) SEMINAR IN INSTRUMENTAL MUSIC (3) Comparative analysis of current

methods and materials used in schools and colleges. Instrumental conducting and repertoire. Construction of acoustical properties and basic techniques of instruments. Problems of ensemble and balance. Intonation, precision and interpretation are studied. Materials and music literature for bands, orchestras and small ensembles are evaluated. Prerequisite: Admission to the Graduate Program.

54.562 (1005.562) SEMINAR IN CHORAL (VOCAL) MUSIC (3) Comparative analysis of current methods and materials used in schools and colleges. Choral conducting and repertoire. Style, interpretation, tone quality, diction, rehearsal and conducting techniques are analyzed. Prerequisite: Admission to the Graduate Program.

54.571-588 (1005.571-588) PRIVATE LESSONS

(1-3) Refer to MUSIC 171-188 for course description, fee and time.

54.595 (1005.595) RESEARCH METHODS IN MUSIC AND MUSIC EDUCATION (3) The application of methods of research to problems in the field of music and music education, the preparation of bibliographies and specialized techniques for the location, collection and treatment of data. The written exposition of research projects in the area of the student's major interest. Prerequisite: Admission to the Graduate Program.

54.697 (1005.697) THESIS PROJECT (3) Thesis Project includes: Graduate recital or musical composition in lieu of thesis. Prerequisite: Approval of Music Department Graduate Committee.

54.699 (1005.699) THESIS (3)



# Nursing

Associate Professor: SCHWALM (Chairperson)

Assistant Professors: BURCH, COX, DAVIES, HARRELL, KEENEN, MIDKIFF, MOLLICK,

MOSLEY, WIKOFF, WILEY

Instructor: LEE

# History

In response to community needs for professional nurses in health care delivery, the Board of Trustees granted approval for the initiation of a baccalaureate program in professional nursing leading to the Bachelor of Science Degree. Development of the curriculum in the Nursing major was begun in September 1970 with the acceptance of the first group of students in February 1972. The curriculum is designed to meet the changing conceptual role of nursing as it evolves from the health needs of society —

THAT of using a unique core of knowledge and actions to assist individuals, families and groups in various stages of the life cycle and in varied environmental settings to maximize their highest level of wellness;

THAT of preparing citizens who value thought and involvement.

Therefore, courses in the Nursing major are designed around the episodic-distributive nursing care concept.\*

# Objectives

In the broad spectrum of contemporary health settings, the graduate from the Nursing major at Towson State College

- ... accepts self and others as persons of inherent worth and dynamic potential;
- ... is committed to the total well-being of man and society;
- ... assesses the essential economic, psychosocial and medical factors that contribute to the well-being of individuals and groups of all ages;
- ...uses critical thought and sensitivity in assessing health needs and in planning, providing and evaluating distributive and episodic nursing care;
- ...shows skill in organizing nursing functions and establishing priorities in the delivery of health care:
- ... gives competent, professional nursing care based on a broad foundational knowledge of the biological, physical and social sciences;
- ... communicates effectively and is sensitive to individual and group dynamics;
- ... teaches individuals and groups health maintenance through an interdisciplinary team endeavor and/or independently;
- ... participates reciprocally in the efforts of the allied professions in the delivery of distributive and episodic health services to the community;
- ... performs nursing within ethical and legal boundaries of the profession;
- ...functions as a participant in and consumer of research in nursing and allied disciplines;
- ... supports the concept of improved nursing practice through on-going systematic study;
- ... accepts the opportunities for informed membership in professional organizations or activities concerned with the well-being of man and society;

... is self directed in assessing and attaining personal and professional goals;

... possesses the academic foundations for graduate education in professional nursing.

Attainment of these objectives is accomplished through course study in the liberal arts, the sciences and Nursing. The completion of the general course offerings required of all students of the College — plus selected academic and professional courses — requires four academic years (full-time enrollment in the Upper Division is required in the Nursing major). As an integral part of each Nursing course, the learning process is extended from the College to a variety of health agencies which include: Baltimore City Health Department, Bureau of Public Health Nursing; Baltimore City Hospitals; Baltimore County Board of Education; Baltimore County Department of Health; The Children's Hospital, Inc.; Franklin Square Hospital; The Good Samaritan Hospital; The Greater Baltimore Medical Center; Howard County Health Department; Lida Lee Tall Learning Resources Center; Saint Joseph Hospital; Sheppard and Enoch Pratt Hospital; Sinai Hospital of Baltimore, Inc.; Social Security Administration; Springfield Hospital Center of Sykesville, Maryland, and Stella Maris Hospice.

# Requirements for Matriculation in the Nursing Major

- 1. Enrollment at the high school level in the following courses in strongly recommended to provide the foundational base for pursuance of the Nursing major: mathematics 3 units, including two years of algebra; chemistry 1 unit; biology 1 unit and physics 1 unit.
- 2. Admission to the College. ALL STUDENTS WISHING TO PURSUE THE NURSING MAJOR SHOULD CONTACT THE DEPARTMENT OF NURSING (Administration Building, Room 132) AT THE TIME OF APPLICATION FOR ADMISSION TO THE COLLEGE TO COMPLETE THE REQUIRED "PRENURSING STUDENT INFORMATION SHEET." (The absolute deadline for students enrolled at Towson to do this is May 31st preceding matriculation in the major and enrollment in NURS 55.221. Students transferring directly from another institution of higher education into Towson the semester they desire enrollment in the first Nurse offering (NURS 55.221) must submit the completed Pre-Nursing Student Information Sheet by the previous October 15th.)
- 3. Seek admission to the Nursing major after completion of a sufficient amount of prerequisite course work, as outlined on the Curriculum Plan for the Department, so that the student can finish successfully all of the Lower Division requirements by the time he or she completes NURS 55.221.
- 4. Admission to the Department of Nursing is made by Departmental Faculty only based on the Criteria for the Selection of Nursing Majors. The Criteria may be obtained from the Nursing Office. PLEASE NOTE: Because of an existing problem of securing a sufficient number of Faculty to meet the demands of classroom and clinical instruction and a limited number of available health facilities in which to provide clinical learning opportunties for all students enrolled in the Nursing major, fifty (50) students will be accepted to study in the Nursing Department yearly. Therefore, ADMISSION TO THE COLLEGE DOES NOT CONSTITUTE OR GUARANTEE ADMISSION TO THE NURSING MAJOR.

BECAUSE OF A LIMITED CLASS SIZE, STUDENTS ARE ADVISED TO SEEK ALTERNATIVE ENROLLMENT OPPORTUNTIES IN OTHER FOUR-YEAR NURSING PROGRAMS.

5. Students attending Towson State College the September prior to their desired enrollment in the first Nursing offering (NURS 55.221) are screened for admission to the Nursing major during the summer preceding matriculation in the Department. Students transferring directly to the College from another school

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the same semester they desire admission to the Nursing major are considered for admission during the Fall preceding the semester they wish to enroll in NURS 55.221.

Presently, the Department of Nursing is unable to offer Registered Nurses seeking a baccalaureate degree study in the Nursing courses because challenge opportunities for academic credit for previous nursing education and experience are not available at the College. However, Departmental Faculty will be happy to advise Registered Nurses concerning Lower Division requirements should they wish to pursue study in non-Nursing courses on either a full- or part-time basis at the College.

# The Curriculum Plan for the Nursing Major

#### 1. Lower Division Course Requirements

FRESHMAN YEAR First Semester: ENGL 30.102 Freshman Composition (3); BIOL 14.101 Contemporary General Biology (4); CHEM 22.101 General Chemistry (4); SPCH 84.131 Fundamentals of Speech Communication (3); PHED Physical Education (student selection) (1), totalling 15 hours; Second Semester: MATH 50.115 Math I (3); BIOL 14.315 Medical Microbiology (4) or BIOL 14.318 Microbiology (4); \*ELECTIVE from areas of Art, Drama, English, Modern Languages, Music or Philosophy and Religion (3), totalling 17 hours;

SOPHOMORE YEAR First Semester: BIOL 14.113 Human Anatomy and Physiology (4); SOCI 80.101 Introduction to Sociology (3); \*ENGL (student selection) (3); PSYC 70.203 Human Growth and Development (3); \*ELECTIVE from areas of Economics, Geography, History or Political Science (3), totalling 16 hours; Second Semester: BIOL 14.114 Human Anatomy and Physiology (4); HEAL 38.204 Nutrition (3); SOCI 80.203 The Family (3); NURS 55.221 Introduction to Professional Nursing Practice (4); \*ELECTIVE from areas of Economics, Geography, History or Political Science (3); CHEM 22.102 General Chemistry (4), totalling 17 hours.

#### 2. Upper Division Course Requirements

JUNIOR YEAR First Semester: NURS 55.311 Distributive Care: Contemporary Family Health Care (4); NURS 55.312 Episodic Care: Contemporary Family Health Care (9); \*ELECTIVE from the areas of Art, Drama, English, Modern Languages, Music or Philosophy and Religion (3), totalling 16 hours; Second Semester: NURS 55.321 Distributive Care: Acute-Chronic Health Problems (4); NURS 55.322 Episodic Care: Acute-Chronic Health Problems (9); \*ELECTIVE from areas of Art, Drama, English, Modern Languages, Music or Philosophy and Religion (3), totalling 16 hours;

SENIOR YEAR First Semester: NURS 55.411 Distributive Care: Complex Community Health Problems (4); NURS 55.412 Episodic Care: Complex Clinical Situations (9); PSYC 70.431 Group Dynamics (3) or SOCI 80.410 Small Groups (3), totalling 16 hours; Second Semester: NURS 55.421 Advanced Distributive Care (4) or NURS 55.422 Advanced Episodic Care (4); NURS 55.423 Nursing Leadership (9); SOCI 80.392 Demography (3), totalling 16 hours.

The Nursing courses must be completed in a sequential pattern because each course is foundational for the subsequent ones.

\*Students may elect to take a maximum of twelve credits from those courses indicated by an asterisk (\*) under the College's Pass Option plan following the guidelines as outlined in this Bulletin for that Plan.

#### Academic Standards

In order to remain in the Nursing major and to graduate from it, the student must maintain a grade of "C" (2.0) or better in each Nursing course (in addition to attaining the cumulative grade point average required by the College).

# Program Approval

The Nursing Program is approved by the Maryland State Board of Examiners of Nurses. Presently, the Department is seeking accreditation from the National League for Nursing.

Students graduating from the Nursing major are eligible to write the State Board Examination for licensure as a Registered Nurse in the State of Maryland.

# Financial Aid and Special Obligations

Federal Nursing Student Scholarship and Loan Funds and other sources of assistance are available to eligible students. Information may be obtained from the College's Office of Financial Aid.

Enrollees in the Nursing major are expected to:

- a. carry student nurses' liability insurance through an insurance company selected by the Departmental Faculty and endorsed by the American Nurses' Association (approximately \$10.00 annually);
- b. purchase appropriate clinical attire initially selected by students in the Nursing major and Departmental Faculty (approximately \$250.00 for total program);
- c. provide own travel to and from clinical facilities (including the cost and method of transportation).

### NURSING COURSES (NURS)

COMMENCING WITH THE 1976-77 ACADEMIC YEAR, THE CURRENT ALPHABETICAL DESIGNATION "NURS" WILL BE REPLACED BY A NUMERIC CODE OF 1203.

# Lower Division — Undergraduate

55.221 (1203.221) INTRODUCTION TO PROFES-SIONAL NURSING PRACTICE (4) This course concentrates on developing intellectual skill in the assessment, nursing intervention and instruction of health maintenance for man and society. Attention is given to selected forces which alter the well being of man followed by study and observation of man's adaptive behaviors to biological, psychosocial and environmental changes. Selected historical perspectives in nursing are included. Prerequisite: acceptance into Nursing major by Department Faculty.

# Upper Division — Undergraduate

- 55.311 (1203.311) DISTRIBUTIVE CARE: CONTEMPORARY FAMILY HEALTH CARE (4) This course concentrates on developing intellectual sensitivity to the changing developmental needs and conceptual role of the family and its members. Attention is given to the study and application of prevention and health maintenance concepts specific to each developmental stage from birth to young adulthood. Nursing practice takes place in a variety of environmental settings exclusive of hospital confinement. Prerequisite: 55.221.
- 55.312 (1203.312) EPISODIC CARE: CONTEMPO-RARY FAMILY HEALTH CARE (9) Course emphasis is on the application of a defined scope of scientific knowledge and skill
- unique to curative and restorative nursing care of hospitalized patients from birth through young adulthood. This course is taken concurrently with the course 55.311 to provide comprehensive study in applying nursing practice to the dynamic needs of persons of the aforestated age groups in various environmental settings. Prerequisite: 55.221.
- 55.321 (1203.321) DISTRIBUTIVE CARE: ACUTE-CHRONIC HEALTH PROBLEMS (4) This course concentrates on developing keen intellectual sensitivity to the nurturing needs of individuals within society. Emphasis is on the prevention of acute-chronic diseases and the maintenance of health for people from young adulthood to senescence. Nurs-

ing practice is directed toward the continuous care of persons not confined to hospitals. Prerequisite: 55.311 and 55.312.

- 55.322 (1203.322) EPISODIC CARE: ACUTE-CHRONIC HEALTH PROBLEMS (9) Course emphasis is on the application of a defined scope of scientific knowledge and skill specific to curative and restorative nursing care of hospitalized patients with acute or chronic health problems. This course is taken concurrently with the course 55.321 to provide comprehensive study in dynamic, progressive nurse-patient care in various hospital settings. Prerequisite: 55.311 and 55.312.
- 55.411 (1203.411) DISTRIBUTIVE CARE: COM-PLEX COMMUNITY HEALTH PROBLEMS (4) This course offers study in the inter-relationship and application of nursing interventions specific to multi-faceted health problems within contemporary urban and suburban settings. Attention is given to the nurse as an interdisciplinary health team member who provides psycho-social, as well as physical care to individuals and families. Prerequisite: 55.321 and 55.322.
- 55.412 (1203.412) EPISODIC CARE: COMPLEX CLINICAL SITUATIONS (9) This course focuses on comprehensive knowledge of human behavior, technology and procedures. Concentration is judiciously applied to curative and restorative care of patients with complex health problems and confined to general or psychiatric health care institutions. Prerequisite: 55.321 and 55.322.
- 55.421 (1203.421) ADVANCED DISTRIBUTIVE CARE (4) This course offers further study and increased competence in nursing practice. Emphasis is on health maintenance and disease prevention for persons not confined to health care institutions. According to interest, the student selects the environmental

- setting and the particular individual-group health problems for independent study. Prerequisite: 55.411 and 55.412.
- 55.422 (1203.422) ADVANCED EPISODIC CARE (4) This course offers further study and increased competence in nursing practice. Emphasis is on curative and restorative care for hospitalized persons with acute-chronic physiologic and psychiatric problems. According to interest, the student selects the clinical setting and the particular individualgroup problem for independent study. Prerequisite: 55.411 and 55.412.
- 55.423 (1203.423) NURSING LEADERSHIP (9)
  The focus of this course is on the study of cross-relationships between human relations and organizational effectiveness for the delivery of health care. Attention is given to leadership skills, professional ethics, legal boundaries, the economics of health services and citizenship. Prerequisite: 55.411 and 55.412.
- NOTE: DISTRIBUTIVE CARE is the area of concentration in nursing practice which emphasizes that aspect essentially designed for health maintenance and disease prevention. This is generally continuous in nature, seldom acute and increasingly will take place in community or emergent institutional settings.\*

EPISODIC CARE is the area of concentration in nursing practice which emphasizes that aspect essentially curative and restorative, generally acute or chronic in nature, and most frequently provided in the setting of the hospital or in-patient facility."

\*National Commission for the Study of Nursing and Nursing Education, *An Abstract for Action* (New York: McGraw-Hill Book Company, 1970), pp. 91 and 92.

<sup>\*</sup> National Commission for the Study of Nursing and Nursing Education, An Abstract for Action (New York: McGraw-Hill Book Company, 1970), pp. 91 and 92.



# Philosophy and Religion

Professors: EBERHARDT (Chairman), MADDEN

Associate Professors: deBRABANDER, FUCHS, HILL, MURUNGI

Instructor: ROBERTSON

Courses offered by the Department are historical, systematic, analytic, or speculative, according to the nature of the course, the interests of the instructor, and the composition of the particular class. The attitude that informs all courses is scholarly or speculative, rather than sectarian or dogmatic.

# Requirements for the Major and Minor

Basic Requirements: 58.101 Introduction to Philosophy, 58.203 Logic, 58.341 Ethics. And four courses from the following — 58.321 Pre-Socratic and Classical Greek Philosophy, 58.322 Late Classical and Medieval Philosophy, 58.323 Late Medieval and Renaissance Philosophy, 58.324 Modern Philosophy, 58.325 Schools of Contemporary Philosophy, or 58.326 American Philosophy.

Additional requirements for the minor: All of the above, plus any other term course (3 credits) for a total of 24 credits.

Additional requirements for the major: In addition to the above basic requirements, four other term courses (12 credits) including at least two term courses in the 440-449 or 470-479 series are required. Two term courses (6 credits) may, with the permission of the Chairman, be taken in allied disciplines, e.g., history, mathematics, political theory, psychology, religion. In exceptional instances students may, with permission, make substitutions for required courses, e.g., a higher numbered course may be substituted for a lower numbered course.

COMMENCING WITH THE 1976-77 ACADEMIC YEAR, THE CURRENT ALPHABETICAL DESIGNATION "PHIL" WILL BE REPLACED BY A NUMERIC CODE OF 1509.

# Lower Division — Undergraduate

- 58.101 (1509.101) INTRODUCTION TO PHILOSO-PHY (3) An introduction to some fundamental problems of philosophy and to various proposals for the solution of these problems.
- 58.203 (1509.203) LOGIC (3) Study of and practice in inductive and deductive reasoning, the composition of argument, and demonstration, and the detection of logical and non-logical fallacies.
- 58.211 (1509.211) THEORY OF KNOWLEDGE (3)
- An historical and systematic approach to the truth value and elements of the forms of human knowledge. The theories of major philosophers will be studied. Prerequisite: None.
- 58.270-279 (1509.270-279) PHILOSOPHICAL PER-SPECTIVES (3) The course will consider contemporary issues from the uniquely philosophical perspective in order to stimulate independent reflection on the part of the student.

# Upper Division — Undergraduate and Graduate

- 58.301 (1509.301) PHILOSOPHIES OF INDIA (3) Examination of some major philosophical systems through selected writings in translation. Prerequisites: One course in philosophy or consent of instructor.
- 58.302 (1509.302) PHILOSOPHIES OF CHINA AND AND JAPAN (3) Examination of some major philosophical systems through selected writings in translation. Prerequisites: One course in philosophy or consent of instructor.
- 58.321 (1509.321) PRE-SOCRATIC AND CLASSI-CAL GREEK PHILOSOPHY (3)
- 58.322 (1509.322) LATE CLASSICAL AND MEDIE-VAL PHILOSOPHY (3) (Should not be attemped without having taken 58.101 or 58.321.)
- 58.323 (1509.323) LATE MEDIEVAL AND RENAIS-SANCE PHILOSOPHY (3) (Should not be attempted without having taken 58.101 or 58.321.)
- 58.324 (1509.324) MODERN PHILOSOPHY (3)
  The history of philosophy beginning with
  Descartes through the 19th century. (Should
  not be attempted without having taken
  58.101 or 58.321.)

- 58.325 (1509.325) SCHOOLS OF CONTEMPORARY PHILOSOPHY (3) A survey with varying emphases on a number of such contemporary philosophical positions as pragmatism, phenomenology, logical positivism, the analysts, neo-Aristolelianism, the philosophers of science, and the existentialists. (Should not be attempted without having taken 58.101 or 58.321.)
- 58.326 (1509.326) AMERICAN PHILOSOPHY (3)
  A study of the main currents of American philosophical thought as exemplified in such writers as Edwards, Emerson, Peirce, James, Royce, Dewey and Whitehead. (Should not be attempted without having taken 58.101 or 58.321.)
- 58.331 (1509.331) CONCEPTS OF WOMAN: A HISTORICAL APPROACH (3) Various concepts which philosophers have used to define woman. A historical survey approach, with readings by Plato, Aquinas, and others, and ending with Beauvior. Prerequisite: 58.101 or 58.321.
- 58.341 (1509.341) ETHICS (3) Analysis of reading from the principle classical and contemporary ethical sources; study of the basic moral concepts as found in these sources; application to contemporary moral concerns. Prerequisite: 58.101 or consent of Department.
- 58.343 (1509.343) AESTHETICS (3) An analytic and historical examination of concepts of the nature of art, beauty, aesthetic value, aesthetic perception, and of the modes of existence of artifacts. Prerequisite: 58.101 or consent of Department.
- 58.354 (1509.354) PHILOSOPHY OF BIBLICAL LITERATURE: OLD TESTAMENT (3) Major themes of the Biblical Literature, and of its religious, philosophical and cultural implications. Prerequisite: At least one lower division course in Philosophy, Religion or History.
- 58.410 (1509.410) CONTEMPORARY ETHICAL PROBLEMS (3) The course will treat the meaning of moral experience and the moral problems which arise in connection with human sexual integrity, ownership of property, welfare, violence, civil disobedience, punishment, war, and truth telling in social relations and government. Prerequisites: A previous course in philosophy or consent of instructor.
- 58.421 (1509.421) ARCHAEOLOGY OF PALESTINE AND TRANS-JORDANIA (3) A study using audio-visual aids of the aims, techniques and artifacts of biblical archaeology. Research exercises may require the use of museums, collections and libraries. Prerequisites: 58.461 or, any introductory course in Geography, History, Philosophy or, Consent of Department.
- 58.431 (1509.431) ETHICS OF MEDICINE AND THE LIFE SCIENCES (3) A search for

- guidelines in such moral problems as abortion, the care of the dying, organ transplants, informed consent in therapy and experimentation, adequate health care and its just distribution, control of human behavior by drugs, surgery, etc., test-tube reproduction, population control, genetic engineering and counseling. Prerequisites: A previous course in Philosophy or consent of instructor.
- 58.440-449 (1509.440-449) PHILOSOPHICAL SYSTEMS (3) The study of a major philosophical system or position, classical or modern, and of its important proponents. Prerequisites required: 58.203, one other lower level course in philosophy, and consent of the Department.
- 58.451 (1509.451) PHILOSOPHY OF RELIGION (3) Exposition of various approaches to the philosophy of religion with an analysis of the major issues on which they differ and agree. Prerequisite: 58.101 or consent of Department.
- 58.454 (1509.454) PHILOSOPHY OF BIBLICAL LITERATURE: NEW TESTAMENT (3) Major themes of the Biblical Literature, and of its religious, philosophical and cultural implications. Prerequisite: At least one lower division course in Philosophy, Religion or History.
- 58.455 (1509.455) HELLENISTIC ERA (3) Three significant phases of the preparation of the Mediterranean world for the Hebraic-Hellenic synthesis: (1) Judaism, (2) Hellenism, and (3) the Roman conquest. Contribution of archeology will be indicated. Prerequisite: At least one lower division course in Philosophy, Religion or History.
- 58.457 (1509.457) COMPARATIVE RELIGION I (3) Examination of Eastern religions, culture and life — Hinduism, Buddhism, Confucianism, Taoism, Shinto. Prerequisites: At least one lower division course in Philosophy, Religion or History.
- 58.458 (1509.458) COMPARATIVE RELIGION II (3)
  Examination of the religious life and culture of the Near East and Africa. Prerequisites:
  At least one lower division course in Philosophy, Religion or History.
- 58.459 (1509.459) PROTESTANT, CATHOLIC, JEW (3) Judaism and Christianity. A study of their biblical, historical and cultural sources. Prerequisite: At least one lower division course in Philosophy, Religion or History.
- 58.461 (1509.461) THE HISTORICAL GEOGRAPHY AND ARCHAEOLOGY OF PALESTINE (3) The course seeks to assess the role of geographical, archaeological, and historical disciplines (the provenance), used conjointly, in biblical interpretation. Prerequisites: Any introductory course in Geography, History or Philosophy or, Consent of Department.
- 58.463 (1509.463) MODERN ATHEISM (3) The course is an attempt to interpret the meaning

of this entirely new phenomenon in Western Civilization, It will deal with modern atheism in its various forms: scientific, psychoanalytic, existential and marxism atheism. Prerequisites: Any 2 philosophy courses and permission of the Department.

58.470-479 (1509.470-479) PHILOSOPHICAL PROBLEMS (3) A consideration of one of the perennial interests of philosophy. Prerequisites required: 58.203, one other lower level course in philosophy, and consent of the Department.

58.495 (1509.495) RESARCH TUTORIAL IN PHI-LOSOPHY (3) Directed readings and research leading to a thesis paper under one or more members of The Department. Prerequisite: Majors in Philosophy, or seniors with consent of Department.



# Physical Education Department

Professors: BIZE, CONARD, EASON, MEINHARDT, SHEETS, ZEIGLER

Associate Professors: KILLIAN, MYRANT, SLEVIN, VERKRUZEN

Assistant Professors: ALBERT, ANGOTTI, BLANN, BOUCHER, BOUTON, BREAZEALE, FAULKNER, FIELD, FINCH, FORBES, HARRIS, KENNARD, McDONALD, McGINTY,

RIORDON, RUNK, STINAR

Instructors: BRITT, DUNCAN, WALL, WALTER, WANLESS, YERKES

Assistant Instructors: DOBKIN, SHEKITKA

# Program for Non-Majors

#### Service Division

The program of physical education is planned to provide the student with an opportunity to acquire the skills and understanding of selected physical activities. Emphasis is placed on the development of sufficient competence to promote satisfaction and enjoyment in sports and recreational activities. To meet the general course requirements of all students in Group IV, a minimum of one credit must be taken from 60.011-059. All courses admit men and women, but several are more specifically structured for men or women. Such courses are clearly designated in the College Schedule Bulletin. Students with medically screened physical limitations may elect adapted physical education (60.009). Activity courses may be taken each semester of the student's academic career.

A partial list of course offerings follows: 009 Adaptive-Modified; 011 Archery; 013 Badminton; 017 Basketball; 019 Body Mechanics; 020 Bowling; 021 Conditioning; 023 Fencing; 025 Field Hockey; 027 Folk Dance; 029 Football; 031 Golf; 033 Gymnastics; 035 Handball; 036 Lacrosse; 037 Modern Dance; 041 Soccer, 042 Jazz Dance; 043 Softball; 045 Swimming 1; 046 Swimming II; 047 Swimming III; 049 Synchronized Swimming; 051 Senior Life Saving; 052 Water Safety Instructor; 053 Tennis; 055 Track and Field; 057 Volleyball; 059 Wrestling; 069 Social Dance; and 071 Elementary Backpacking.

Non-Major students may apply for credit by examination for prior experience or skill by contacting the respective chairperson for College and Departmental procedures.

COMMENCING WITH THE 1976-77 ACADEMIC YEAR, THE CURRENT ALPHABETICAL DESIGNATION "PHEC" WILL BE REPLACED BY A NUMERIC CODE OF 0835.

# Elementary Education — Physical Education Division

60.101-102 (0835.101-102) PHYSICAL EDUCATION FOR ELEMENTARY EDUCATION STUDENTS I, II (1,1) The course is designed
for the teacher of elementary school children to gain an understanding of and develop a basic ability in the basic skills of
children's activities. The course provides
opportunity to become familiar with methods
of learning skills and to appreciate the needs
of the individuals in motor learning and

analysis of group behavior. Prerequisites to 60.324.

60.324 (0835.324) Special sections of The Teaching of Physical Education in the Elementary School may be selected by students in the elementary education block program. The course is designed to give the student knowledge and practical experience in teaching the elementary child. Prerequisites: 101-102.

# Program for Physical Education Majors

Students may select a major in physical education. The purpose of the major is to prepare competent teachers of physical education for the public schools of Maryland. Graduates are certified to teach at the elementary and secondary level. A planned sequence of courses is designed to provide the student with skills and leadership experiences needed to direct a balanced program in class, intramural and extramural activities, and varsity sports. All men physical education majors are requested to serve two semesters as a member of an intercollegiate team or serve an equivalent time in the athletic training or intramural programs.

A physical education major takes the general college requirements, and must complete Physics-B, Biology and Human Anatomy and Physiology. Additional requirements are listed below. A total of thirty-eight to forty credit hours of physical education is required for a major in physical education.

		Course No.	Cr.	Laboratory in New					
1.	Biology			Educational Media	13.369	1			
	General Biology	14.101	4	VI. Physical Education					
	Human Anatomy and	14 110 144	8	Theory — Men and Women					
	Physiology	14.113-144	0	Overview of Physical					
11.	Physics			Education	199	2			
	General Physics B	66.101	5	Curriculum in Physical					
111	Psychology			Education	203	3			
111.	General Psychology	70.101	3	Organization &					
	Educational Psychology	70.201	3	Administration	303	3			
		70.201	3	Tests & Measurements	309	3			
IV.	Health			Kinesiology	311	3			
	Current Health Problems	38.101	3	Physiology of Exercise	313	3			
	First Aid	38.103	2	*Care & Prevention of					
	Health Education in the		_	Athletic Injuries	315	2			
	School I	38.201	3	•	321-322	1-1			
٧.	Education			Teaching Physical Education					
	Careers in Teaching	27.101	2	in the Elementary School	324	2			
	Student Teaching			Teaching Physical Education					
	Elementary	26.497	7	in the Secondary School	325	2			
	Secondary	27.398	7	Principles and Problems of	020	-			
	Survey of Education	28.319	3	•	401 402	2-2			
	Foundations of Education	27.401	3	•	401-402				
**Adaptive Physical Education 423 2 *Required (men); Elective (women)									

Required (women); Elective (men)

# Professional Laboratory Skills

Professional laboratory skill courses (103-159) (0.5-1.0) provide instruction in the basic activities appropriate for a teacher of physical education, including acquisition of skills and methods of instruction. Twelve credits are required.

	Lower Division — Undergraduate						
MEN (Required — all courses are .5 credits)							
	105	Badminton	135	Modern Dance			
	107	Baseball	141	Soccer			
	111	Basketball	*145	Swimming I			
	116	Conditioning	*146	Swimming II			
	118	Elementary Games	153	Tennis			
	126	Football	155	Track & Field			
	128	Golf	157	Volleyball			
	130	Gymnastics I	159	Wrestling			
	131	Gymnastics II	**163	Teaching Techniques of			
	133	Lacrosse		Contemporary Movement			

MEN (Elective — six courses)								
103	Archery	*147	Swimming III					
112	Basketball II	60.148	Basic Diving					
114	Bowling		Water Polo					
124	Folk Dance		Senior Life Saving					
128	Golf II		Water Safety Instructor					
132	Gymnastics III		Tennis II					
137	Social Dance	156	Team Handball					
139	Jazz Dance	165	Ballet					
140	Handball	167	Self Defense					
			Total of 12 credits required					
WON	MEN (Required — all courses are .5 credits)		9 credits					
103	Archery	135	Modern Dance					
105	Badminton	141	Soccer					
111	Basketball	143	Softball					
113	Body Mechanics	*145	Swimming I					
118	Elementary Games	153	Tennis					
122	Field Hockey	155	Track & Field					
130	Gymnastics 1		Volleyball					
131	Gymnastics II	**163	Teaching Techniques of					
133	Lacrosse		Contemporary Movement					
WOMEN (Elective — six courses)								
165	Ballet	136	Modern Dance II					
112	Basketball II	167	Self Defense					
114	Bowling	137	Social Dance					
120	Fencing	*146	Swimming II					
124	Folk Dance		Swimming III					
128	Golf I	*149	Synchronized Swimming					
129	Golf II		Senior Life Saving					
132	Gymnastics III	**152	Water Safety Instructor					
139	Jazz Dance	154	Tennis II					

Total of 12 credits required

\*Students will be screened through the use of placement tests and assigned to aquatic courses (145 through 152) according to individual ability. 1.0 credit

### Professional Theory Courses

- 60.196, 296, 396, 496 (0835.196, 296, 396, 496) INDEPENDENT STUDY (.5-3) Course is designed to permit students to take courses which they cannot arrange within the regular semester schedule. All work will be under the direct supervision of an assigned faculty. No more than 3.0 credits may be earned in Independent Study unless the permission of the Department Chairperson is obtained. Prerequisites: To be approved by Department Chairperson. (Undergraduate credit only)
- 60.199 (0835.199) OVERVIEW OF PHYSICAL EDUCATION (2) A brief history of physical education emphasizing the place of physical education in education today, identification

60.203 (0835.203) CURRICULUM IN PHYSICAL EDUCATION (3) Physical education as a part of general education, aims and content. Principles for development of a sequential physical education curriculum in grades one

through twelve.

of leaders in the field, the role of profes-

sional ethics and standards, professional

organizations (their purpose and function),

and an introduction to professional literature.

60.205 (0835.205) CAMP LEADERSHIP (2) The role of the camp counselor in organized camping. Emphasis on camp related skills of camperaft, trips, crafts and nature study. Several field trips.

# Upper Division — Undergraduate

60.301 (0835.301) RECREATION (3) Preparation for leadership and organization of afterschool activities for children, such as club, hiking, camping and playground activities. Visits to recreation centers. Specialists in story telling, crafts, recreational singing, playground and club work give part of the

course. Participation in some organized recreation with children.

60.303 (0835.303) ORGANIZATION AND ADMIN-ISTRATION (3) Investigation of policies and procedures in the organization and administration of physical education. Areas covered

- include facilities, equipment, budget, scheduling, special events, records, awards.
- 60.305 (0835.305) SCHOOL CAMPING AND OUT-DOOR EDUCATION (2) Aims, organization, administration, and program of the school camp.
- 60.309 (0835.309) TESTS AND MEASUREMENT IN PHYSICAL EDUCATION (3) Background for development of measurement programs in physical education; elementary statistical procedures; interpretation of data; selection and administration of tests measuring fitness, motor ability, and sports skills applicable to various grade and age levels.
- 60.311 (0835.311) KINESIOLOGY (3) Mechanical and anatomical analysis of movement in relation to human performance. Prerequisite: Phys 66.101, Biology 14.113-114.
- 60.313 (0835.313) PHYSIOLOGY OF EXERCISE
  (3) Application of principles of physiology to large muscle activity, with special emphasis on the interrelations of muscular, nervous, circulatory, and respiratory functions during exercise. Prerequisite: Biology 14.113-114.
- 60.315 (0835.315) CARE AND PREVENTION OF ATHLETIC INJURIES (2) Theoretical and practical methods of preventing and treating athletic injuries; techniques of taping and bandaging; emergency first aid; massage; use of physical therapy modalities. Prerequisite: Biology 14.113-114.
- 60.317 (0835,317) MODERN DANCE COMPOSITION (2, 3) Approaches to composition through short studies directed toward a feeling of phasing and form in dance. To be offered as an elective for the physical education major or for any interested student. Prerequisite: Approval of instructor.
- 60.319-320 (0835.319-320) CHOREOGRAPHIC PROBLEMS I, II (3, 3) Studies on the intermediate level using Pre-Classic forms and modern idioms of dance. Problems involved in choreographing for solo, duet, and small group dances. Prerequisite: 60.317.
- 60.321-322 (0835.321-322) COACHING AND OFFI-CIATING I, II (1, 1) Fundamentals, tactics, strategy, ethics and other factors in coach-

- ing and officiating sports. Prerequisite: Professional Laboratory Skills related to Team Sports.
- 60.324 (0835.324) TEACHING PHYSICAL EDUCATION IN THE ELEMENTARY SCHOOL (2)
  The focus of this course is the child-inmovement. Specific attention centers on individual and group progressions for a wide variety of movements, methods of organization, direct and problem-solving teaching methods, and motor development. Opportunities to observe and teach children are provided.
- 60.325 (0835.325) TEACHING PHYSICAL EDUCA-TION IN SECONDARY SCHOOLS (2) Course provides an extended period of observationparticipation in a junior or senior high school. The course includes responsibilities of the secondary school physical education teacher, teaching methods, lesson and unit planning, and topics resulting from the participation experience.
- 60.401-402 (0835.401-402) PRINCIPLES AND PROBLEMS OF PHYSICAL EDUCATION I, II (2, 2) The application of knowledge derived from psychological, sociological and philosophical research findings about human movement to the teaching of physical education. The courses will emphasize research technique, individual projects and the synthesizing of information into logical foundations for teaching practices. Prerequisites: 60.309, 313.
- 60.403 (0835.403) ORGANIZATION AND ADMINISTRATION OF INTRAMURALS (3) Course designed to permit the graduate and undergraduate student to acquire the skills of administration necessary in the development and organization of intramural programs in schools and colleges.
- 60.441 (0835.441) THE SPORTSWOMAN IN AMERICAN SOCIETY (3) The purpose of this course is to examine the American woman in sport. Literature from the historical, physiological, sociological, psychological and philosophical perspective will be reviewed. Concepts revealed will be contrasted with myths about and societal attitudes toward women who participate in sport. Prerequisites: Phed 203 and 303, or permission of instructor.

# Upper Division — Undergraduate and Graduate

- 60.412 (0835.412) THEORY AND ANALYSIS OF GYMNASTICS MOVEMENT (3) Theoretical and practical application of mechanical analysis of movement concepts as related to proper execution of skills in gymnastics: The techniques and methods used in this course are designed to provide the teacher a logical system for presenting gymnastic skills to facilitate learning for the student; to demonstrate that gymnastic skills are logically founded on basic physics or terrestrial mechanics; to present aiding and spotting techniques.
- 60.419 (0835.419) SWIMMING AND POOL MANAGEMENT (3) An advanced course in teaching methods for all levels of swimming and diving. Modern methods of training the competitive swimmer with emphasis on technique and conditioning of the individual. The organization and administration of swimming pools and clubs with regard to staff, recreation and poll filtration. Prerequisites: Senior Lifesaving and Water Safety Instructors, or consent of instructor. This is a certificate course for pool management, approved by the Department of Health, Baltimore County.

- 60.421 (0835.421) PHYSICAL EDUCATION PRO-GRAM IN THE ELEMENTARY SCHOOLS (3) A study of current trends and issues in curriculum development, methods and materials and research concerned with elementary school physical education programs. Prerequisite: 60.324.
- 60.423 (0835.423) ADAPTIVE PHYSICAL EDUCA-TION (3) Recognition of pupils with physical deviations, and use of special or modified physical education activities. Prerequisite: 60.311, 14.113-114.
- 60.425 (0835.425) MODERN DANCE IN SECON-DARY SCHOOL (3) Exploration into the variety of methods and materials available for the teacher of Modern Dance at the secondary school level. Prerequisite: Modern Dance I or its equivalent or permission of instructor. (Offered only in evening and summer.)
- 60.430 (0835.430) MOVEMENT EDUCATION IN THE ELEMENTARY SCHOOL (3) Application of problem solving and individualized methods of teaching of movement for the elementary school child. Development programs and materials for teaching creative dance, games, and sports. Survey of current literature.
- 60.453 (0835.453) ORGANIZATION AND ADMIN-ISTRATION OF ATHLETICS (3) Designed to aid those persons responsible for organizing and administering intramural and interschool athletic programs. Topics such as organizational patterns, objectives of the programs, controls, game management, records, conduct of tournaments, officials, awards, and means of promoting the programs will be considered. Study will be made of competitive as well as informal recreation programs on all educational levels, with special emphasis on the secondary schools. Prerequisite: Upper division standing in Physical Education or Coaching or Administrative Experience.
- 60.471 (0835.471) PERCEPTUAL-MOTOR DEVEL-OPMENT IN PHYSICAL EDUCATION (3) The purpose of the course is to provide the teacher of physical education with a basic knowledge of the area of Perceptual-Motor Development. The following areas will be examined: Perceptual-Motor Programs and Theories, Perceptual-Motor Testing Programs, Related Research, Sensory Input and Motor Output. Prerequisites: Teaching Physical Education in the Elementary School --60.324.
- 60.485 (0835.485) SELECTED TOPICS IN PHYSI-CAL EDUCATION (3) Workshop designed for study of special topics of current interest in physical education and athletics. Content varies and will focus on substantive material or operational problems. Prerequisite: Consent of workshop director and/or graduate coordinator.
- \*60:509 (0835.509) PSYCHOLOGY OF MOTOR

- LEARNING (3) Investigation of the various psychological factors that affect the acquisition of motor skills. Emphasis will be focused on teaching and practice methodology, motivational factors, learning theories, physical and motor considerations, anxiety, stress, tension, competition, mental practice, transfer of training, level of aspiration, etc. Prerequisite: Bachelor's degree with a major in Physical Education.
- \*60.512 (0835.512) SIGNIFICANT PERIODS IN PHYSICAL EDUCATION (3) An examination of the influence of Greek, Roman, European and English concepts of physical education upon American physical education. Emphasis on the formation and development of American concepts of physical education. Prerequisite: Consent of graduate coordina-
- \*60.513 (0835.513) ANALYSIS OF PHYSIOLOGI-CAL CONCEPTS (3) Analysis of research and laboratory application of the physiological factors that affect human efficiency before, during and after exercise. Factors to be investigated include: metabolism, circulation-respiration, muscular physiology, endocrine system, ergogenic aids, environmental factors, etc.
- \*60.530 (0835.530) MECHANICAL ANALYSIS OF MOVEMENT (3) Various basic mechanical principles are analyzed as they relate to efficient human movement. The physical laws to be studied are leverage, motion, projectiles, gravity, buoyancy and equilibrium. The design of the course will be research oriented. Prerequisite: 60.311 and an undergraduate major in physical education or consent of the graduate coordinator.
- \*60.533 (0835.533) ADMINISTRATION AND SU-PERVISION OF PHYSICAL EDUCATION (3) Designed to acquaint the student with the scope, problems and techniques of administering and supervising a program of physical education. The work of the chairman of the department, problems of personnel, program, facilities, and evaluation will be discussed. Prerequisite: Undergraduate degree in Physical Education or consent of graduate coordinator.
- \*60.539 (0835.539) CRITICAL ANALYSIS OF CUR-RENT LITERATURE IN PHYSICAL EDUCA-TION (3) Designed to facilitate the depth and quality of the knowledge of students, teachers, administrators, supervisors and research personnel in their assessment and investigation of the following aspects of the physical education profession: contemporary leaders, books, journals, periodicals, projects, trends, issues, innovations, etc. Prerequisite: Undergraduate degree in physical education or consent of graduate coordinator.
- \*60.541 (0835.541) EVALUATIVE TECHNIQUES IN PHYSICAL EDUCATION (3) Designed primarily to develop analytical ability in the ad-

ministration, assessment and interpretation of test results. Research and laboratory application involves the evaluation of measurements of classification indexes, power, agility, motor ability, balance, flexibility, kinesthetic perception, speed and recreation time, strength, muscular endurance, cardiovascular condition, sport skills, etc. Prerequisite: Undergraduate major in physical education or consent of graduate coordinator.

- \*60.545 (0835.545) FACILITIES AND EQUIPMENT FOR PHYSICAL EDUCATION (3) Designed to cover the principles of programming and planning facilities for physical education. Indoor and outdoor activity areas will be studied as well as their maintenance. Procedure related to selection, purchase and care of equipment will be included. Prerequisite: Undergraduate degree with a major in physical education or consent of the graduate coordinator.
- \*60.547 (0835.547) RESEARCH SEMINAR (3) Research on a project of particular significance to the individual through consultation with designated faculty members. Focus will be on the experimental design and the proper structural format for project or thesis

- formulation. Prerequisite: Educ 29.691 as well as an undergraduate major in physical education and consent of graduate coordina-
- \*60.551 (0835.551) COMPARATIVE PHYSICAL EDUCATION - CONTEMPORARY AND IN-TERNATIONAL (3) A comparative analysis of contemporary patterns of physical education in selected countries throughout the world. Prerequisite: Undergraduate degree in physical education or consent of the graduate coordinator.
- \*60.553 (0835.553) CONTEMPORARY PHYSICAL EDUCATION CURRICULUM (3) Curriculum design for elementary and secondary school physical education. Examination of current literature pertinent to aims, objectives, content, and method of physical education. Prerequisite: Teaching experience, undergraduate physical education major or consent of graduate coordinator.

<sup>\*</sup>All students, equivalency and degree candidates, must have Graduate Standing to take 800 level courses. See Graduate Studies Bulletin for admission requirements. ALL SECONDARY DEGREE CANDIDATES WITH AN EMPHASIS IN PHYSICAL EDUCATION MUST HAVE COURSE SELECTIONS APPROVED BY THE GRADUATE COORDINATOR. Specific prerequisites are listed with each course descrip-



# Physics Department

Professors: BAREHAM, COX, NEWMAN, PELHAM, RUBENDALL

Associate Professors: HUANG (Vice-Chairman), JOHNSON (Chairman), LOH, MOOREFIELD,

Assistant Professors: CHEN, GREENE, KREISEL, LARSEN, MOLITOR, UKENS

Instructor: WESNER

The Department offers two majors programs, physics and natural science, and many other service courses in liberal art's physics, and science education.

# Physics Major

The major program is designed to meet the needs of three groups of students, those planning (1) to be physics teachers in the secondary schools, (2) to enter graduate study in physics, environmental science, mechanics, oceanography, geophysics or other applied physics, and (3) to be physicists in industry, government, and other non-teaching professions. The last two groups are classified as regular physics major and the first group is classified as physics teacher major. Their respective requirements are expressed in the following:

Regular Physics Majors: 66.221, 222 (or 66.211, 212); 66.301; 66.305; 66.311; 66.313; 66.321; any two of 66.385, 386, 387; 66.401; 66.471 (35 credits of physics). Required non-physics courses: 50.273, 50.274, 50.373, 22.101, 22.102, and 14.101.

Physics Teacher Majors: 66.221, 222 or 66.211-212; 66.311; any two of 66.385, 386, 387; 66.302 or 301, 66.301 or 305; 66.401 for at least 28 credits of physics. Required non-physics courses: 50.273, 50.274, and 14.101; and at least 24 semester hours of education courses. Students electing this major should see either Molitor or Ukens for further information.

Students who intend to be physics majors should see one of the following instructors: Chen, Huang, Larsen, Loh, Newman, or Wesner early in their education at this college. Physics majors are required to complete 12 credits of upper division physics courses at this college.

# A Suggested Schedule for Physics Majors

For Freshmen who had algebra, trigonometry, and analytic geometry in high school, it is highly recommended to take PHYS 66.221-222 (or 211-212) and MATH 50.273-274 in their first year. Other students may take a schedule such as the following:

First Year: 1st Semester: Chemistry 22.101 or 103 (4), Mathematics 50.115 or 119 (3), English 30.102 or 104 (3), German 36.101 or Russian 74.101 (3), Speech 84.101 or Elective from General Education Requirements (2 or 3); total of 15 or 16 credit hours. 2nd Semester: 22.102 or 104 (4), 50.116 or 273 (3 or 4), English elective (3), German 36.102 or Russian 74.101 (3), Elective from General Education Requirement (3); total of 16 or 17 credit hours.

Second Year: 1st Semester: General Physics 66.221 (4), Biology 14.101 (4), Mathematics 50.273 or 274 (4), Elective from General Requirements (4 or 5); total of 16 or 17 credit hours. 2nd Semester: General Physics 66.222 (4), Mathematics 50.274 or 373 (4), Health or Physical Education Requirements (1 or 3), Elective (6); total of 15, 16, or 17 credit hours.

Third Year: 1st Semester: Mechanics 66.301 (4), Mathematic Physics 66.321 (3), Electricity and Magnetism 66.305 (4), Advanced Lab 66.385-387 or Basic Electronics 66.335 (3), Electives from General Requirements (1 to 3); total of 15, 16, or 17 credit hours. 2nd Semester: Thermodynamics 66.302 (3), Modern Physics 66.311 (4), Advanced Lab 66.385-387 or Basic Electronics 66.335 (3), Electives (6 or 7); total of 15 or 16 credit hours.

Fourth Year: 1st Semester: Physics Seminar 66.401 (1), Physical Optics 66.411 (3), Quantum Mechanics 66.471 (3), Other Electives (9); total of 16 credit hours. 2nd Semester: Advanced Lab 66.385-386 or Electronics 66.437 (3), Statistical Mechanics 66.472 (3), Other Electives (10); total of 16 credit hours.

Students planning to teach in public schools (physics teacher majors) may schedule the required education courses (24 credits) in the 3rd and 4th year. The electives must be chosen to satisfy the total 128 semester hours College Requirements. Students should beware that most of the advanced physics courses (300 and 400 levels) may be offered in either the first semester or the second semester, but not in both semesters. Usually General Physics 66.211 (or 221) is also offered in the second semester and 66.212 (or 222) in the first semester. Students should plan their schedules according to the offering in each semester. It is the responsibility of the student to plan his program so that he may complete all requirements before graduation.

# Physics Minor

The requirements for physics minor are 20 credits in physics courses including PHYS 66.211-212 (or 221-222), 301, 311. For further information consult Department Chairmen.

# Natural Science Major

The program is designed to give a broader view of the sciences than is obtained in a traditional undergraduate major in a single science. This is done at the sacrifice of depth and students should therefore be aware that this major may not prepare them for graduate work in a single science. Course requirements are: BIOLOGY 14.101, 105, 109; CHEMISTRY 22.101-102; one course either 210, 211, 230, or 231; MATHEMATICS 50.115; PHYSICAL SCIENCES 64.121, 211; PHYSICS 66.211-212 (or 212-222); BIOLOGY 14.291 or 14.491 or PHYSICAL SCIENCES 64.401; biological or physical sciences electives (including one field course) for ten or eleven credit hours, for a total of 54 hours in physical sciences, biological sciences and mathematics.

Prospective secondary school teachers of general science should elect this major. Students should plan their programs to meet the certification requirements of the area in which they plan to teach.

# PHYSICS COURSES (PHYS)

COMMENCING WITH THE 1976-77 ACADEMIC YEAR, THE CURRENT ALPHABETICAL DESIGNATION "PHYS" WILL BE REPLACED BY A NUMERIC CODE OF 1902.

# Lower Division — Undergraduate

- 66.101 (1902.101) GENERAL PHYSICS B (5)
  One semester General Physics with special emphasis on motion including kinematics and dynamics of linear and angular motion.
- 66.211-212 (1902.211-212) GENERAL PHYSICS I, II (4, 4) For Arts and Science, Biology, and Natural Science Majors: Mechanics, heat, light, electricity, magnetism and a brief introduction to modern physics. Three lecture hours and one three-hour laboratory period. Prerequisite: MATH 50.115, or good standing of high school algebra and trigonometry.
- 66.213 (1902.213) GENERAL PHYSICS A (5) One semester General Physics with special

- emphasis on geometric and physical optics, optical instruments, electricity and magnetism, ac and dc circuits, atomic and nuclear physics and fluid flow. Prerequisites: 50.115, 22.102 or 22.104.
- 66.221-222 (1901.221-222) GENERAL PHYSICS I, II (4, 4) For Chemistry, Mathematics, and Physics Majors: Mechanics, heat, light, electricity, magnetism and a brief introduction to modern physics. Three lecture hours and one three-hour laboratory period. Prerequisite: MATH 50.273 or concurrently.
- 66.295 (1903.295) COURSE RESEARCH IN 200-LEVEL COURSES

### Upper Division — Undergraduate and Graduate

- 66.301 (1902.301) MECHANICS (4) Systems of coordinates and kinematic components of motion; Newtonian dynamics of particles and linear systems, including planetary motion and oscillations in damped and undamped systems; virtual work; generalized coordinates and Lagrange's equations; Hamiton's principle with elementary applications of least action, varying action and the canonical equations. Some nonlinear effects will be introduced. Four lecture hours. Prerequisite: PHYS 66.222 or 66.212. MATH 50.274.
- 66.302 (1902.302) THERMODYNAMICS AND KINETIC THEORY (3) Principles and laws of classical thermodynamics applied to simpler irreversible processes, including chemical, elastic, electric and magnetic phenomena; thermodynamic functions and Maxwell's relations; the conservation equations in elementary kinetic theory; fluctuations and irreversible transfer effects. This course may be taken concurrently with PHYS 66.212 or 66.222 by permission. Three lecture hours. Prerequisite: PHYS 66.212 or 66.222. MATH 50.274.
- 66.305 (1902.305) ELECTRICITY AND MAGNE-TISM (4) Theorems of Gauss and Stokes as applied to electrostatics and magnetostatics; diamagnetism and paramagnetism; steady and transient current effects; alternating currents; conduction in gases, photoelectricity; and electron theories of solid state phenomena; the classic treatment of Maxwell-Lorentz electromagnetic and propagation effects. And possibly the following topics will be included: the special theory of relativity; introduction to microwaves and wage guides; plasma physics and magnetohydrodynamics. Four lecture hours. Prerequisite: PHYS 66.212 or 66.222. MATH 50.274.
- 66.311 (1902.311) MODEAN PHYSICS (4) The specific details of this course will be changed from time to time as necessitated by student interests and needs. In general, the intermediate principles and applications of relativity, quantum physics, elementary particles, nuclear physics and solid state theory will serve as the foundation for additional specialized developments of current interest. Four lecture hours. Prerequisite: PHYS 66.222 or 66.212. MATH 50.274.
- 66.313 (1902.313) HISTORY AND PHILOSOPHY OF PHYSICS (2) The works of Sarton, Cohen, Singer and Dampier on the history and significance of physical concepts. The philosophical concepts of Bridgeman, Russell, Heisenberg and other contemporaries interpreted in the historical development. Two lecture hours.
- 66.321 (1902.321) INTRODUCTORY MATHEMAT-ICAL PHYSICS (3) As the mathematical maturity of the students will allow, selected topics will be examined such as the generalized expressions for forces and potentials, vector analysis, applications of Fourier series

- and complex variables, and solutions of the harmonic oscillator and wave equations. Three lecture hours. Prerequisite: PHYS 66.222 or 66.212, MATH 50.373 or concurrently.
- 66.335 (1902.335) BASIC ELECTRONICS (4) Circuit components, characteristics of semi-conductors, electrical measurements, method of circuit analysis, electronic devices. Three lecture hours and one three-hour laboratory period. Prerequisite: 66:212 or 66.222 or consent of instructor.
- The following three, single-semester courses, called ADVANCED PHYSICS LABORATORY, may be taken independently subject to the requirements as specified for each. Three laboratory hours and three hours of independent work.
- 66.385 (1902.385) MECHANICS AND HEAT (3) Equilibrium of rigid bodies; moments of inertia; laws of angular motion; physical and torsional pendulums; servomechanisms; surface tension; vapor pressure and hygrometry; viscosity of fluids; continuous flow calorimetry; thermal conductivity; black-body radiation; acoustics. Prerequisite: PHYS 66.301 or concurrently.
- 66.386 (1902.386) MODERN PHYSICS (3) Milikan oil drop experiment, e/m measurement, photoelectric effect, electron diffraction, Franck-Hertz experiment, radioactivity, lasers, soft x-ray and additional specialized developments of current interests. Prerequisite: PHYS 66.311 or concurrently.
- 66.387 (1902.387) ELECTRICITY AND OPTICS (3) Kirchhoff's laws; potential differences; galvanometer measurements; resistance thermometers, fuel cells; thermoelectricity; indices of refraction — of lenses; interference effects; spectroscopy. PHYS 66.305 is a requirement which may be taken concurrently.
- 66.395 (1902.395) COURSE RESEARCH IN 300-LEVEL COURSES
- 66.401, 402 (1902.401, 402) PHYSICS SEMINAR I, II (1, 1) Students participate in colloquia on topics of current interests in physics research under guidance of instructor. One lecture hour. Prerequisite: Senior standing or consent of instructor.
- 66.411 (1902.411) PHYSICAL OPTICS (3) Electromagnetic theory of light, wave solutions, interference, diffraction, scattering, radiation from coherent and incoherent sources, elementary theory of masers and lasers. Three lecture hours. Prerequisite: PHYS 66.305 or consent of instructor.
- 66.435 (1902.435) ELECTRONICS (3) Principles of transistors with emphasis on their design and construction and an introduction to logic circuits. Two lecture hours and one two-hour laboratory period. Prerequisite: PHYS 66.305, 66.335.

- 66.471 (1902.471) INTRODUCTORY QUANTUM MECHANICS (3) The Schroedinger equation, states of one particle in one dimension, potential barrier problems in one dimension, the harmonic oscillator, system of particles in one dimension, motion in three dimensions, angular momentum, spin, application to atomic physics. It is recommended that 66.305, 321 be taken prior to this course. Prerequisite: PHYS 66.301. MATH 50.373.
- 66.472 (1902.472) INTRODUCTION TO STATIS-TICAL MECHANICS (3) Distribution function, microcanonical, canonical and grand canonical ensembles, the partition function
- and thermodynamic relations. Fermi-Dirac and Bose-Einstein statistics, some simple model and applications, the Maxwell-Botzman transport equation and the hydrodynamic equations, transport coefficients. Three lecture hours. Prerequisite: PHYS 66.471.
- 66.490 (1902.490) INDEPENDENT STUDY PHYS-ICS (1-4) Prerequisite: At least junior status and one course in the Physics Department.
- 66.491 (1902.491) DIRECTED READINGS (1-4)
  Prerequisite: At least junior status and one course in the Physics Department.

### PHYSICAL SCIENCE COURSES (PHSC)

COMMENCING WITH THE 1976-77 ACADEMIC YEAR, THE CURRENT ALPHABETICAL DESIGNATION "PHSC" WILL BE REPLACED BY A NUMERIC CODE OF 1901.

- 64.101 (1901.101) PHYSICAL SCIENCE I (4) Principles of physics with an emphasis on the application of scientific method. May not be used for the Natural Science Major.
- 64.121 (1901.121) GENERAL GEOLOGY (3)
  Composition and structure of the earth, internal and external forces acting on it and resulting surface features. Laboratory study of rocks and minerals, topographic and geologic maps, and aerial photographs. One full day, and one over-night field trip required. Two lecture hours and one two-hour laboratory.
- 64.131 (1901.131) LIGHT AND COLOR (3) Some aspects of light and color and of vision will be examined on a factual and descriptive basis. Predominantly qualitative explorations will be made of the origin of light, of its wave and particle behavior, of the polarization of light, of lasers and holography, of the origin and physical basis of color, and of the physics of vision. This course in liberal arts physics is offered for curious inquirers who have had minimal contact with physics. Three lecture hours.
- 64.141 (1901.141) PHYSICS OF SOUND AND MU-SIC (3) Study of sound and its production by various instruments, the human voice included. Physical interpretations will be given of concepts such as noise, pitch, loudness, harmonics and timbre, scales and temperament, etc. Other topics to be treated include: the mechanics of the inner ear, acoustics, electronic production and reproduction.
- 64:151 (1901.151) ENERGY AND POLLUTION (3)
  Basic forms of energy: thermal, electrical,

- nuclear, solar. The relationship between energy and pollution. The problems of energy and pollution.
- 64.161 (1901.161) GENERAL ASTRONOMY I (3)
  Science of astronomy; investigations and theories concerning the solar system, galaxies and the universe. Two lecture hours and one two-hour laboratory period. High school algebra suggested.
- 64.162 (1901.162) GENERAL ASTRONOMY II (3)
  A study of stars, stellar systems, galaxies, and cosmology. Emphasis will be placed on the determination of the distance scale and modern trends in astronomy including methods used on space probes. Three contact hours. Prerequisite: General Astronomy I, or acceptable substitute.
- 64.195 (1901.195) COURSE RESEARCH IN 100-LEVEL COURSES
- 64.222 (1901.222) GEOMORPHOLOGY (3) Origin and evolution of surface features of the earth as controlled by the interaction of geologic structures and erosional processes. Field work in the Maryland area. Two lecture hours and one two-hour laboratory period. Prerequisite: PHSC 64.101, 64.121.
- 64.234 (1901.234) STILL PHOTOGRAPHY (3) Emphasis will be on the production of photographs, rather than the mastery of many techniques. Camera operation, developing, printing and other topics according to student interest. Five contact hours.
- 64.295 (1901.295) COURSE RESEARCH IN 200-LEVEL COURSES

### Upper Division — Undergraduate and Graduate

- 64.303 (1901.303) EARTH-SPACE SCIENCE IN CHILDHOOD EDUCATION (3) Physical science principles applied in the study of earth and space. Emphasis on experimental and discovery approaches that may be used in the elementary school. Prerequisite: 64.101.
- 64.322 (1901.322) GEOMORPHOLOGY OF THE EASTERN UNITED STATES (3) Extent, nature, and geological history of the geomorphic provinces of the Eastern United States. Emphasis on the Middle Atlantic states. Field excursions in the Maryland area. Prerequisites: 64.121 Geology.

64.401 (1901.401) ADVANCED LABORATORY IN PHYSICAL SCIENCE (2) Exacting Laboratory work of an advanced nature under the guidance of the Physics Department staff. Each student will present and defend his work at a seminar. Prerequisite: Consent of instructor.

64.405 (1901.405) FUNDAMENTAL CONCEPTS IN THE EARTH SCIENCES (3) Principles of astronomy, geology and related earth sciences. Methods of investigation employed by earth scientists. Observations in the planetarium and field studies in the Baltimore area. Two lecture hours and one two-hour laboratory period. Prerequisite: PHSC 64.101 or equivalent. No credit allowed if student has taken PHSC 64.211 (Astronomy) and/or PHSC 64.121 (Geology).

64.495 (1901.495) COURSE RESEARCH IN 400-LEVEL COURSES

### SCIENCE EDUCATION COURSES (SCIE)

The following courses are taught by instructors in the Department of Physics and Biological Sciences. Course descriptions will be found under the Education Department listings:

EDUC 26.341 EARLY CHILDHOOD EDUCATION PROFESSIONAL BLOCK 1 - SCIENCE

SCIE 76.301 (0834.301) FIELD COURSE IN SEC-ONDARY SCIENCE TEACHING

SCIE 76.375 (0834.375) TEACHING SCIENCE IN THE ELEMENTARY SCHOOL

SCIE 76.379 (0834.379) TEACHING SCIENCE IN THE SECONDARY SCHOOL

SCIE 76.401 (0834.401) SEQUENTIAL SCIENCE MODULES FOR THE ELEMENTARY SCHOOL TEACHER

SCIE 76.488 (0834.488) (SUMMERS) AEROSPACE **EDUCATION WORKSHOP** 

SCIE 76.585 (0834.585) SEMINAR IN ELEMEN-TARY SCHOOL SCIENCE

### Elementary School Science Concentration

For prospective elementary school teachers who wish a somewhat broader background in science than that obtained from the required courses. Also open to other students, but arts and science and secondary education students should be aware that this program does not provide them with the "major" they must have in order to earn a degree. Course requirements are: BIOLOGY 14.101, 105, 109, 301; PHYSICAL SCIENCES 64.101, 121, 202, 203, 204, 211 for a total of 36 hours. Students electing this concentration are urged to take MATHE-MATICS 50.115.



# Psychology

Professors: CASSATT, FURUKAWA (Chairman), NEULANDER, SAXTON, SUYDAM Associate Professors: ARMSTRONG, GROENHEIM, MILLER, RASKIN, SIEGEL, SLATER Assistant Professors: BAILEY, BASS, DICESARE, DYER, FALLIK, FIGLER, LAVIN, LEYHE,

PETRI, RABIN, RAVAL, SANDERS, WALEN, WEBSTER, YOUNG, ZWEBACK

Instructor: FINK

Assistant Instructor: CRANE Visiting Professors: GIBSON, POPE Visiting Assistant Professor: McGEE

A student may elect either a major (32 hours) or minor (24 hours) in psychology programs aimed at understanding and predicting behavior. Electives beyond the basic requirements facilitate preparation for: (1) graduate work in psychology and in guidance, (2) training in special and in general education, (3) vocations requiring a liberal arts background, and (4) providing clinical services.

### Psychology Major

The minimum requirements for a major in psychology are 70.101, 70.111, 70.261, and 70.305, along with an approved program of 18 elective hours in psychology. Twelve of the 18 elective hours must be at the 300-400 level.

### Psychology Minor

The minimum requirements for a minor in psychology are 70.101, 70.111, 70.261, and 70.305, along with an approved program of 10 elective hours in psychology.

### Transfer Students

Transfer students may transfer a maximum of 15 hours toward the major.

### Special Programs

Clinical Concentration for Psychology Majors

The combined Sheppard Pratt-Towson State Clinical Concentration in Psychology will lead to a B.S. in Psychology from Towson State College and a certificate as a Specialist in Mental Health from the Sheppard Pratt Hospital School of Allied Mental Health Sciences. The curriculum requirements consist of three components:

A. Basic college and psychology department requirements, as follows:

First year, first semester (17 credits: credits — 17, practicum — 0): 30.102 Freshman Composition, 84.101 Fundamentals of Public Speaking (Option from Art, Drama, English, Music, Philosophy, and Religion, Speech), 70.101 General Psychology (two options from Economics, Geography, History, and Political Science).

First year, second semester (15 credits: credits — 15, practicum — 0): two options from Art, Drama, English, Music, Philosophy and Religion, Speech; 14.101 Fundamentals of Biology (Lab) (Option from Economics, Geography, History, Political Science); and 009-059 Physical Education for Non-Majors.

Second year, first semester (16 credits: credits—16, practicum—0): 70.111 Behavioral Statistics; 70.361 Abnormal Psychology; 80.101 Introduction to Sociology; 1 option from Health and Physical Education; 1 option from \*Clinical Program selections (listed below).

Second year, second semester (16 credits: credits—16, practicum—0): 70.261 Experimental Psychology; 70.350 Personality; 70.437 Clinical Interviewing I, 70.413 Clinical Testing I; \*1 option from Clinical Program selections.

Third year, first semester (15 credits: credits—13, practicum—2): 70.305 Learning, 70.414 Clinical Testing II, 70.439 Clinical Interviewing II, 70.453 Introduction to Psychotherapy I, Option from Sociology.

Third year, second semester (16 credits: credits—12, practicum—4): 70.311 Behavior Modification I, 70.455 Introduction to Psychotherapy II, 70.431 Group Dynamics. One option from Group I; \*One option from Clinical Program selections.

Fourth year, first semester (16 credits: credits—12, practicum—3): 70.312 Behavior Modification II; 70.435 Field Experience in Group Dynamics, 1 option from Math or Physical Science, \*One option from Clinical Program selections.

Fourth year, second semester (13 credits: credits—11, practicum—2): 70.457 Adjunctive Services to Families of Patients, 70.451 Introduction to Activity Therapy, \*Two options from Clinical Program selections.

Clinical Program Options are: PSYCHOLOGY DEPARTMENT-70.211 Child Psychology, 70.321 Adolescent Psychology, 70.425 Introduction to the Helping Relationship, 70.309 Behavioral Pharmacology, 70.471 Introduction to the Exceptional Child, 70.370 Foundations of Rehabilitation Counseling, (new) Psychology of Aging, SOCIOLOGY DEPARTMENT—80.203 The Family, 80.381 Minority Groups, 80.383 Criminology, 80.386 Juvenile Delinquency and medical sociology, MORGAN STATE COLLEGE-19.410 Addiction & Alcoholism I, 19.411 Addiction and Alcoholism II, 19.301 Community Mental Health, 19.302 Community Mental Health, 19.403 Community Action for Mental Health I (Seniors).

### B. Work-Study Blocks.

There are nine work-study blocks, each consisting of courses and closely related practicum experiences. Eight work study blocks lead to the development of skills in clinical areas, and the ninth, in research. The study blocks are: (1) Dyadic helping relationship (Individual therapy); (2) Group interaction (Group therapy; Psychodrama); (3) Interviewing; (4) Counseling and work with community resources; (5) Therapeutic services for family (relatives) of patient; (6) Psychological testing; (7) Activity Therapy; (8) Behavior Modification; and (9) Research.

### C. Field Training in Human Services, 70.443 (4 credits—2 per summer)

In contrast to the practicums, which are supervised clincial experiences closely related to courses in the curriculum, the field experiences are brief, exposures to on-the-job training. There will be five such field experiences, the first a three week period during the minimester of the Sophomore year, and the remaining four coinciding with the two summer sessions after the Sophomore and Junior years. Each of the five field assignments is a supervised work experience, with stipend. Two of the field assignments will be required; these will be on in-patient halls at Sheppard Pratt Hospital. The remaining three will be elective, to be chosen from a list of twelve available clinical facilities. Supervision for the field experiences will generally be provided by the placement facilities.

### Psychology Honors

The Department of Psychology seeks to give special recognition to students for academic excellence through its Honors Program. The guiding philosophy of the Department's Honors Program is to provide the student with a specialized learning experience in both scholarly investigation and scholarly writing. The student who completes an approved program will receive a diploma with the designation Bachelor of Arts or Bachelor of Science in Honors in Psychology. Departmental honors will also appear on the student's transcript.

The program is developed for the junior and senior years and includes nine to ten credit hours in 70.381, 70.485, and 70.488. A colloquim presentation based

on the Senior Thesis (70.499) is required. An honors candidate will also be required to take the Graduate Record Examination and is expected to achieve no less than the 50th percentile on the Aptitude Test (Verbal and Quantitative) and no ess than the 70th percentile on the Area Specialization Test in Psychology.

To be admitted to the program a student must present an overall cumulative average of 3.25 with a cumulative average of 3.50 in Psychology. To graduate from the program the recipient of the honors degree must maintain as a minimum the aforementioned cumulative averages. For additional procedural details contact the Department's Honors Coordinator.

### Master of Arts in Psychology

The Master of Arts in Psychology is designed for students who are primarily interested in an advanced degree in General Psychology, School Psychology, Clinical Psychology or Counseling. For detailed information, see the Bulletin of Graduate Studies.

### PSYCHOLOGY COURSES (PSYC)

COMMENCING WITH THE 1976-77 ACADEMIC YEAR, THE CURRENT ALPHABETICAL DESIGNATION "PSYC" WILL BE REPLACED BY A NUMERIC CODE OF 2001.

### Lower Division — Undergraduate

- 70.101 (2001.101) GENERAL PSYCHOLOGY (3) Methods and principles. Attention to: Measurement, experimentation, sensation, perception, learning, emotion, thinking, remembering, personality, adjustment, development and individual differences. Students will be required to participate in two supervised experiments (outside of class time) to further their understanding of the application of methods of science to the study of human behavior. Prerequisite: None. Fall, Spring, Summer.
- 70.106 (2001.106) APPLIED PSYCHOLOGY (3) Psychologists' contributions to education, medicine, law, mental health and business. Application to problems in these areas. Lectures and field trips. Prerequisite: None. Spring.
- 70.111 (2001.111) BEHAVIORAL STATISTICS (4)
  Distributions and graphs, notation, levels of measurement, percentiles, measures of central tendency and variability, principles of probability, the normal curve, standard scores, sampling theory, hypothesis testing, significance of differences, correlation and prediction, computation on computer terminals, Chi square, Non-parametrics, One-Way analysis of variance. Prerequisite: None. Fall, Spring, Summer.
- 70.201 (2001.201) EDUCATIONAL PSYCHOLOGY (3) The learning process and related concepts; human development; individual differences; measurement and evaluation; personality and adjustment. Prerequisite: 70.101. Fall, Spring, Summer.
- 70.203 (2001.203) HUMAN GROWTH AND DE-VELOPMENT (3) A study of research and theories related to the overall development of the child and adolescence with emphasis on the relative influences of the home, the peer group, the school and the social milieu

- on the developing self. Prerequisite: 70.101. Spring & Fall.
- 70.209 (2001.209) CONSUMER BEHAVIOR (3)
  Basic psychological concepts concerning consumer behavior such as the cognition, perception, learning, attitudes, cognitive dissonance, risk-taking, motivation, and personality of the buyer. Emphasis on the interrelation of economic and sociocultural factors on consumer decision-making, including recent research findings and marketing applications. Prerequisite: 70.101 Spring & Fall.
- 70.211 (2001.211) CHILD PSYCHOLOGY (3)
  Theories and research methods of child behavior. Development of major psychological functions. Prerequisite: 70.101. Fall, Spring, Summer.
- 70.221 (2001.221) SOCIAL PSYCHOLOGY (3)
  The structure and function of groups. Recent advances in sociology, anthropology and psychiatry as related to psychology. Prerequisite: 70.101. Fall & Spring.
- 70.223 (2001.223) INDUSTRIAL PSYCHOLOGY (3)
  A survey of psychological principles applied to man at work, to work tasks, to work settings, and to the design of equipment used in work. Prerequisite: 70.101. Fall.
- 70.230 (2001.230) MENTAL HYGIENE (3) Adjustment as related to mental health, problems to which adjustment is made, and the nature of conflict. Prerequisite: 70.101. Spring.
- 70.261 (2001.261) EXPERIMENTAL PSYCHOLOGY
  I (4) The experimental method and its application to recent problems in psychological research; introduction to experimental design and inference; animal and human learning, perception, social, personality, maturation. Three hours lecture, two hours laboratory per week. Prerequisites: 70.101 and 70.111. Fall, Spring.

### Upper Division — Undergraduate and Graduate

- 70.305 (2001.305) PSYCHOLOGY OF LEARNING (3) Analysis of selected problems in both human and animal learning including reinforcement, punishment, verbal learning and verbal behavior. Prerequisite: 70.261. Fall, Spring and Summer.
- 70.309 (2001.309) BEHAVIORAL PHARMACOL-OGY (3) A systematic investigation of the effects of drugs on behavior. Drug classification, historical aspects, methodological considerations, uses in treatment, drug abuse, and related topics will be considered. Prerequisite: 70.261 or consent of instructor. Fall, Spring, alternate summers.
- 70.311 (2001.311) BEHAVIOR MODIFICATION I (3) Examination & application of the basic principles of the experimental analysis of behavior, with an emphasis on the applied aspects of this modern discipline to schools, jobs, interpersonal relations and self control. Prerequisites: 12 hours of Psychology, including 70.261. Spring.
- 70.312 (2001.312) BEHAVIOR MODIFICATION II (3) Intensive academic and practicum training in various individually oriented behavior therapy techniques. Close individual supervision in practicum work. Prerequisite: 70.311. Fall.
- 70.315 (2001.315) MOTIVATION (3) Theories of motivation, motivational antecedents, and the consequences of such antecedents on instrumental behavior, learning and perception. Prerequisite: 6 hours. Fall.
- 70.317 (2001.317) SENSATION AND PERCEPTION
  (3) A systematic investigation on the basic senses such as vision, audition, taste, smell, and touch will be undertaken. The organization of sensory input will also be emphasized. Both human and non-human data will be presented. Prerequisite: 70.261. Spring.
- 70.321 (2001.321) ADOLESCENT PSYCHOLOGY (3) Physical, emotional, intellectual development during adolescence; social development and heterosexuality; adolescent personality; problems of adjustment; juvenile delinquency. Prerequisite: 70.211 or 70.201. Fall, Spring.
- 70.323 (2001.323) PSYCHOLOGY OF WOMEN (3)
  Behavioral consequences of chromosomal, hormonal, and maturational influences on female development are contrasted with culturally derived patterns of sex-typical behavior. Traditional theoretical approaches to motivation, personality, and mental health are related to changing perspectives with regard to women, their roles and self-concepts. Prerequisite: 70.101.
- 70.330 (2001.330) PSYCHOLOGY OF INDIVID-UAL DIFFERENCES (3) Individual differences in human traits and characteristics; methodology, basic principles, and major findings in research. Prerequisites: 70.101 and 70.111. Spring.

- 70.350 (2001.350) PERSONALITY (3) Theoretical and practical approaches to the study of personality. Introduction to psychodynamics and to methods and materials of assessment. Prerequisite: 6 hours. Spring.
- 70.361 (2001.361) ABNORMAL PSYCHOLOGY (3) Disordered personal reactions to life. Organic and functional phenomena plus therapeutic techniques. Prerequisite: 9 hours. Fall.
- 70.381 (2001.381) READINGS IN PSYCHOLOGY (1-2) A survey of relevant research literature under the guidance of a staff member who will direct the students' research. Prerequisite: 70.261, or consent of instructor. Fall, Spring.
- 70.383 (2001.383) PROCTORING IN PSYCHOL-OGY (3) Students serve as teaching apprentices or proctors in a course which they have already completed (such as General Psychology), and which they must relearn to 100% mastery. Students will manage the learning and evaluate individual progress of the members of the class assigned to them. The experience includes guidance, support, and motivation of the assigned students, all in a supervised situation. Prerequisite: Successful completion of 5 or more Psychology courses or: general, educational and child, or adolescent psychology and principles of education and be a junior or a senior plus permission of instructor. Fall, Spring, Summer.
- 70.385 (2001.385) SEMINAR IN PSYCHOLOGY (1-3) Survey and critical evaluation of modern literature pertaining to selected problems in Psychology. Prerequisite: 70.261, or consent of instructor. Fall, Spring.
- 70.401 (2001.401) HUMAN LEARNING (3) This course will focus upon aspects of learning applicable specifically to human behavior. This includes such topics as acquisition, memory, problem solving, creativity and language. Topics will be discussed within a framework of historic and current theoretical research perspectives. Prerequisite: Experimental Psychology; Psychology of Learning.
- 70.405 (2001.405) THE PSYCHOLOGY OF AGING (3) A study of the changes in learning, emotions, personality and social behavior and the impact of culture and attitude on the aging process. Prerequisites: 6 hours of Psychology, students should be aware of how to read and understand psychology journals and how psychological research is conducted.
- 70.407 (2001.407) PSYCHOLOGY OF READING (3) Psychological foundations of current technology for teaching reading and improving reading skills. Study, evaluation, and implications of psychological studies, psychological models of reading (cognitive, information processing, and chunking), and

- learning theory on the beginning, intermediate, and advanced reader. Prerequisite: 70.101, 70.201, 70.211 or 70.511, recommended 87.105.
- 70.411 (2001.411) TESTS AND MEASUREMENTS
  (3) Psychological and educational testing and evaluation. The construction, administration, interpretation and use of various evaluative devices of aptitiude and achievement. Prerequisites: 70.101 and 70.111. Fall, Spring, Summer.
- 70.413 (2001.413) CLINICAL TESTING PROCE-DURES I (3) Introduction to testing in a clinical setting. The nature of tests. The nature of personality assessment. Referral problems. Psychometric approach to specific tests of intelligence and organicity. Role of examiner. Ethical standards. Prerequisite: 70.111 and 70.361. Spring.
- 70.414 (2001.414) CLINICAL TESTING PROCE-DURES II (3) Psychometric use of projective techniques. Test observation. Reporting testing data. Ethical use of psychometrical techniques. Prerequisite: 70.413. Fall.
- 70.416 (2001.416) PERSONALITY MEASURE-MENT (3) A continuation of 70.411 that will emphasize the use and interpretation of instruments for measuring attitudes, interests and related aspects of personality. Instruments studied will include paper-pencil inventories, projective devices and observational procedures. Prerequisite: 70.411 and 70.230, or 70.361. Spring.
- 70.421 (2001.421) APPLICATIONS OF BEHAVIORAL PRINCIPLES TO FAMILY AND
  CLASSROOM ENVIRONMENTS (3) Practical application of operant techniques to child
  management and family functioning. Course
  will deal with behavioral analysis, behavior
  modification programs and family contracting both at school and at home, with emphasis on learning basic technical skills. Prerequsite: 70.211.
- 70.425 (2001.425) INTRODUCTION TO THE HELPING RELATIONSHIP (3) Current concepts of the helping relationship and an exploration of the conditions that facilitate its effectiveness. Prerequisite: 70.101, and psychology major or minor planning to enter one of the helping professions, or graduate student in Guidance and Counseling, or consent of the department. Fall, Spring, Summer.
- 70.427 (2001.427) INTRODUCTION TO INTER-VIEWING TECHNIQUES I (3) An introduction to interviewing with the examination of real interviews with children in difficulty. The theory and methods of delivery of helping services via the interview. Prerequisites: minimum of 2 months interviewing experience and permission of instructor. Course is offered in 1 week session. Jan. and June.
- 70.428 (2001.428) INTERVIEWING TECHNIQUES II
   (3) This is a continuation of 70.427. The course explores more deeply the unique relationship of the interviewer to the client.

- There is a practical experience with critiquing of interviews of students. Prerequisites: 70.427.
- 70.430 (2001.430) SYSTEMS AND TECHNIQUES OF COUNSELING PRACTICE (3) Review and application of current theoretical approaches to the helping relationship. Prerequisites: 70.425 and either 70.230 or 70.361 or 70.540. Spring.
- 70.431 (2001.431) GROUP DYNAMICS (3) Intensive study of group interactions with emphasis upon reciprocal group influence of behavior. Prerequisite: 70.221 or consent of instructor. Fall.
- 70.435 (2001.435) SUPERVISED FIELD EXPERI-ENCE (3-6) Placement in a community service agency to familiarize the student with its current practices. Supervised client contact will be provided. Prerequisites: 70.370, 70.430 and departmental consent.
- 70.437 (2001.437) CLINICAL INTERVIEWING I (3) Combined didactic and experiential coverage of types of interviews, dimensions of interviewer input, interviewee response and of relationships. Prerequisite: 70.425 plus admission in Clinical Concentration in Psychology. Fall.
- 70.439 (2001.439) CLINICAL INTERVIEWING II (3) Clinical observation and practicum experience. Focus on interviewer and interviewee dimensions and relationship with patients. Use of tapes, seminars and individual supervision. Prerequisite: 70.437. Fall.
- 70.441 (2001.441) INFORMATION SERVICE IN COUNSELING AND GUIDANCE (3) Educational and vocational resources. Evaluation, classification and use of such information. Prerequisite: 70.101.
- 70.443 (2001.443) FIELD TRAINING IN HUMAN SERVICES (1 or 2) Work experience in a hospital or clinic setting in the field of human services. Prerequisite: Acceptance in Clinical Concentration. Summer.
- 70.451 (2001.451) INTRODUCTION TO ACTIVITY THERAPY (4) Principles and procedures of activity as a method of therapy (e.g., occupational, recreational, vocational, music, dance, art, drama). Practicum includes observation of various methods and participation under supervision in occupational and recreational therapy. Prerequisite: 70.350, 70.361, 70.431. Spring.
- 70.453 (2001.453) INTRODUCTION TO PSYCHO-THERAPY I (3) Readings, lectures, and seminars relating to psychological emergencies and the modes of intervention during psychological crises. Prerequisite: 70.425. Fall.
- 70.455 (2001.455) INTRODUCTION TO PSYCHO-THERAPY II (4) Survey of methods and techniques to dyadic therapy using selected readings. Practicum involving observation and seminar discussions and participation with individual supervision. Prerequisite: 70.425 and 70.453. Spring.

- 70.457 (2001.457) ADJUNCTIVE SERVICES TO FAMILIES OF PATIENTS (4) Organization and adaptation of treatment procedures to the family as a group, and to individual relatives. Practicum at a neighboring state hospital, under supervision, and at local agencies. Prerequisites: 70.211, 70.321, 70.361, 70.453, 80.203, Clinical Concentration students.
- 70.460 (2001.460) COMPARATIVE PSYCHOLOGY
  (4) The differences in behavior between species will be compared within a framework of learning, ethology, and neuropsychology. Three hours of lecture, two hours laboratory per week. Prerequisite: 70.261. Spring.
- 70.461 (2001.461) COGNITIVE PSYCHOLOGY (3) This course will deal with the nature of the cognitive processes, an analysis of the organization of cognitive abilities, and problems in cognition. Theoretical viewpoints will be explored, including those of Piaget, J. P. Guilford, Ausubel, Lewin, Skinner. A comparison among theories will be made as they relate to the thinking processes. Prerequisites: 70.203, 70.205 or with permission of instructor. Spring.
- 70.465 (2001.465) PHYSIOLOGICAL PSYCHOL-OGY (4) The physiological basis of behavior, with consideration of receptor, central and effector structures and function. Three hours lecture, 2 hours laboratory per week. Prerequisite: 70.261 or permission of instructor. Fall.
- 70.471 (2001.471) INTRODUCTION TO THE EXCEPTIONAL CHILD (3) Children with a typical, physical, mental, social and emotional development, including the physically handicapped, the mentally retarded, the gifted, and emotionally disturbed children. Prerequisite: 70.201 or 70.211. Fall.

#### Graduate Division

- 70.511 (2001.511) DEVELOPMENTAL PSYCHOL-OGY (3) Psychological structures and functions in human development. Theoretical and research approaches. Prerequisite: 70.201 or equivalent. Fall, Spring, Summer.
- 70.515 (2001.515) INTRODUCTION TO RESEARCH METHODS IN COUNSELING (3) An introduction to the principal methods of behavioral research emphasizing concepts rather than statistical procedures. The course should prepare counselors to evaluate methods, designs, and results of counseling research. Prerequisite: Graduate standing in Counseling.
- 70.520 (2001.520) INDIVIDUAL INTELLIGENCE TESTING (3) Construction, standardization, administration, scoring and interpretation of the Wechsler Individual Intelligence Tests, the Stanford-Binet Intelligence Scale, Human Figure Drawings, the Bender Gestalt, the Gray Oral Reading Test and the Wide Range Achievement Test. Prerequisite: 70.111 and

- 70.475 (2001.475) IDENTIFICATION AND TREAT-MENT OF SENSORY DISABILITIES IN THE SCHOOLS (3) The use of psychological and informal tools to identify sensory disabilities related to perceptual development and the employment and development of treatment methods will cover the first half of the semester. During the second half of the semester, students will be actively involved in working with children experiencing these difficulties. Cross and fine motor coordination, visual-motor coordination, ocular control, auditory discrimination, and verbal skills will be covered. Prerequisites: Consent of coordinator of School Psychology.
- 70.480 (2001.480) SYSTEMS OF PSYCHOLOGY (3) Schools of psychology with their theoretical and methodological approaches. Prerequisite: At least a junior psychology major and consent. Spring.
- 70.485 (2001.485) EXPERIMENTAL DESIGN (4) Design and analysis — Analysis of variance (completely randomized design, repeated measurement designs, etc.), multiple comparisons, nonparametrics, general problems related to sampling, experimental effects, etc. Prerequisite: 70.111, or consent of instructor. Fall, Spring.
- 70.491 (2001.491) INDEPENDENT INVESTIGATION IN PSYCHOLOGY (3) An opportunity for especially qualified students to undertake research problems according to their interest and training under the direction of a staff member. Prerequisite: 70.261 and consent of department. Fall, Spring.
- 70.499 (2001.499) SENIOR THESIS IN PSYCHOL-OGY (4) (Honors) Independent research on special problems in Psychology or closely related fields. Prerequisite: 70.261, 70.485, Honors approval. Fall, Spring.
  - 70.411. M.A. candidate in School or Clinical Concentration. Consent of co-ordinator. Fall.
- 70.521 (2001.521) ADVANCED EDUCATIONAL PSYCHOLOGY (3) Survey of current research in Child Psychology, Learning, Mental Hygiene, and Tests and Measurements. Emphasis on critical analysis of studies. Prerequisite: 70.511. Fall, Spring, Summer.
- 70.531 (2001.531) ADVANCED ABNORMAL PSY-CHOLOGY (3) Current and historical perspectives of psychopathology. Emphasis on varied approaches in contemporary schools. Methods of assessment and treatment. Prerequisite: 70,230 or 70.361. Spring.
- 70.540 (2001.540) MENTAL HYGIENE IN EDUCA-TION (3) Principles of mental hygiene and their application to the educational setting. Major emphasis on wholesome personality development. Prerequisite: 70.511. Spring.
- 70.543 (2001.543) INTRODUCTION TO SCHOOL PSYCHOLOGY (1) An introduction to ethics and issues in school psychology and prep-

- aration of the student to move efficiently through the program. This course should be taken at the beginning of the student's course of studies. Prerequisites: Open only to M.A. candidates in the School Psychology Program. .Consent .of .coordinator. .Fall, Spring.
- 70.545 (2001.545) COPING STRATEGIES IN THE CLASSROOM (3) Practical application of psychological principles and concepts as related directly to the classroom. This course is designed to increase teacher awareness of the teacher's impact on the classrom members with specific emphasis on individual differences. Prerequisite: 70.511 or equivalent.
- 70.550 (2001.550) DIAGNOSTIC TECHNIQUES IN EDUCATION (3) Use of standardized and teacher-constructed instruments for diagnostic and instructional purposes. Prerequisites: 70.511, 70.411 or equiv. Spring.
- 70.551 (2001.551) TECHNIQUES OF GROUP INTERVENTION (3) A theoretical and experiential introduction to the techniques available for use with children experiencing difficulty in the school environment. Emphasis will be on learning the techniques through active participation. Prerequisite: M.A. candidate in School or Clinical Concentration or in Counseling Program. Consent of coordinator. Spring, Summer.
- 70.553 (2001.553) ISSUES AND RESEARCH IN SCHOOL/CLINICAL PSYCHOLOGY (3) Provides for analysis of major issues in school and/or clinical psychology through the study of selected research. Prerequisites: 70.111, M.A. candidate in School or Clinical Concentration. Consent of Coordinator.
- 70.561 (2001.561) FOUNDATIONS OF REHABILITATION COUNSELING (3) The development of rehabilitation programs; their legal basis and historical background. The role of medical, psychological, educational and community resources in the rehabilitation program are explored. Client eligibility, determination, and counselor responsibilities will be reviewed. Prerequisite: 70.101. Spring.
- 70.563 (2001.563) SYSTEMS OF PSYCHO-THERAPY (3) Course is designed to acquaint students with the more prominent schools of psychotherapy. Particular emphasis is placed on the psychotherapeutive aspect of educational and clinical settings. Prerequisites: 70.350, 70.361 or 70.230, 70.531. Spring.
- 70.565 (2001.565) ADVANCED PSYCHOTHERAPY I (3) The first of a two semester sequence presenting major contemporary psychotherapeutic approaches. Areas under consideration will be: theoretical constructs and techniques, relevant research, issues related to the professional practice of psychotherapy. Advanced Psychotherapy I may be taken without Advanced Psychotherapy II. Prerequisite: Graduate standing in psychology or counseling.

- 70.566 (2001.566) ADVANCED PSYCHOTHERAPY II (3) The second of a two semester sequence focused on the continued analysis of major psychotherapy approaches. Each student will conduct an intensive examination of a single psychotherapeutic approach. A seminar paper and a class presentation of the paper will be required. Prerequisite: 70.565.
- 70.570 (2001.570) REFERRAL RESOURCES FOR THE SCHOOL AGE CHILD (3) A study of referral services for the enhancement of the emotional, vocational, and the behavioral adaptation of children in need of services beyond the classroom situation. The course attempts to give direct knowledge to the student of all such specialized facilities both school and community sponsored. Prerequisite: 70.511. Summer.
- 70.573-70.574 (2001.573-2001.574) ADVANCED EXPERIMENTAL PSYCHOLOGY (4, 4) The first semester is comprised of experimentation in the field of human behavior, and the second will emphasize experimentation in the field of animal behavior. Prerequisite: Consent of department, 70,111, 70.261, or equivalent, Spring.
- 70.575 (2001.575) PROSEMINAR I (3) An intensive survey of basic issues and concepts in learning, perception, motivation, and physiological. Prerequisite: 70.261 or equivalent.
- 70.576 (2001.576) PROSEMINAR II (3) An intensive survey of basic issues and concepts in social, developmental, personality, and abnormal. Prerequisite: 70.261 or equivalent.
- 70.577 (2001.577) LEARNING (3) A thorough coverage of major learning theories and models. Prerequisite: Consent of department, 70.305 or equivalent, Fall.
- 70.579 (2001.579) SEMINAR IN PSYCHOLOGY (2) Exploration of current developments in psychology. Topics dependent upon student and faculty interest.
- 70.581 (2001.581) ADVANCED HISTORY AND SYSTEMS OF PSYCHOLOGY (3) Ancient and modern psychological history; discussion of ancient history will draw heavily from both philosophy and physiology; discussion of modern history will develop psychology in various countries. The analysis of systems will include a study of functionalism, structuralism, behaviorism gestalt and psychoanalysis. Summer.
- 70.584 (2001.584) COLLEGE TEACHING SEMINAR
  (3) Materials and procedures for producing successful students in lower level courses will be explored. Spring.
- 70.585 (2001.585) COLLEGE TEACHING PRACTI-CUM (3) Supervised teaching of introductory psychology. Prerequisite: 70.584.
- 70.587 (2001.587) ADVANCED EXPERIMENTAL DESIGN I (3) An advanced treatment of descriptive and inferential statistical methods and design considerations. Prerequisite: 70.111 or equivalent. Fall.

- 70.588 (2001.588) ADVANCED EXPERIMENTAL DESIGN II (3) An indepth treatment of advanced analysis of variance designs and related techniques. Prerequisite: 70.587 or equivalent. Spring.
- 70.589 (2001.589) MULTIVARIATE METHODS (3) Multivariate statistical methods useful in behavioral scientific research. Topics, correlation, regression, factor analysis, descriminant analysis. Prerequisite: 70.587 or equivalent.
- 70.591 (2001.591) PROJECTIVE TECHNIQUES I
  (3) This is the first of a two-course sequence dealing with projective techniques.
  Credit will be awarded only upon completion of the first and second semester of the sequence. The first semester emphasizes an introduction to the administration, scoring and interpretation of projectives in current clinical use. Prerequisite: M.A. candidate in School or Clinical Concentration. Consent of coordinator. Fall.
- 70.592 (2001.592) PROJECTIVE TECHNIQUES II (3) The second of a two-semester sequence in projective techniques. This semester emphasizes the interpretation and appropriate transmission of projective data. Particular emphasis will be placed on the evaluation of learning problems. Prerequisite: 70.591, M.A. candidate in School or Clinical Concentration. Consent of coordinator. Spring.
- 70.605 (2001.605) PRINCIPLES OF GUIDANCE (3) Aims at establishing a philosophy and gaining a knowledge of the principles of guidance. Includes an introduction to the literature of the field. Prerequisite: 70.511 or equivalent. Fall, Spring, Summer.
- 70.606 (2001.606) INTRODUCTION TO CAREER DEVELOPMENT (3) This course is designed to familiarize students with aspects of career development, to introduce them to a variety of relevant resources and media and to assist them to integrate this knowledge by planning a program of career development for a specific group. Prerequisite: Graduate status.
- 70.607 (2001.607) OCCUPATIONAL INFORMA-TION (3) Provides students with knowledge of educational and vocational opportunities and community referral sources essential to a sound guidance program. Includes evaluation, classification and use of such information in the instructional program. Group guidance, counseling and placement. Prerequisite: 70.605.
- 70.608 (2001.608) MEDIA IN CAREER EDUCA-TION (3) This course provides an introduction to the production of videotapes, films, filmstrips, slides and audiotapes pertaining to the world of work. Workshop procedures will be used to develop career education materials for use in a variety of employment settings. Prerequisite: 70.607.
- 70.611 (2001.611) ANALYSIS OF THE INDIVID-UAL (3) Techniques available in studying the individual. Emphasizes data in the areas

- of vocational, educational and personal adjustment. Prerequisites: 70.605 and 70.411. Fall, Spring, Summer. (70.605 may be taken concurrently.)
- 70.615 (2001.615) TECHNIQUES OF COUNSEL-ING (3) Counseling and therapy techniques used by counselors and other professional personnel working with children and adults. Prerequisites: 70.430 or equivalent. Spring, Fall, Summer.
- 70.621 (2001.621) GROUP TECHNIQUES IN GUIDANCE AND COUNSELING (3) The selection, organization and effective use of group guidance materials and techniques in providing for the common needs of groups of students in making more effective educational, occupational, social and personal adjustment. Prerequisites: 70.430 and 70.441. Fall.
- 70.625 (2001.625) COUNSELING OF MINORITY GROUPS (3) A study of the counseling function with emphasis upon minority group needs, counselor attitudes, and techniques. Special focus on counseling in the urban school setting and techniques to be used with minority students. Prerequisite: 70.430.
- 70.627 (2001.627) USE OF TESTS IN COUNSEL-ING (3) Practice in the use and analysis of techniques for understanding the individual with emphasis upon standardized procedures used in the public schools. Prerequisites: 70.611. Fall.
- 70.630 (2001.630) COUNSELING THE ELEMEN-TARY SCHOOL CHILD (3) Study of the dynamics of child behavior, techniques of assessing and counseling. Study of the family, school, and community structures and their effect on the child. Prerequisites: 70.430. Spring.
- 70.635 (2001.635) COMMUNICATION MEDIA WITH CHILDREN I (3) Introduction to the methods and materials used in diagnostic and therapeutic approaches to children. Use of toys, art media and play activities emphasized. Prerequisites: 70.615 or equivalent. Fall.
- 70.636 (2001.636) COMMUNICATION MEDIA WITH CHILDREN II (3) A continuation of Psyc 635 with emphasis upon practical application of the theoretical principles involved in the psychodiagnostic and therapeutic use of play media. Use of the play-room and its materials will be emphasized. Prerequisites: 70.645 and 70.635. Spring.
- 70.645 (2001.645) COUNSELING PRACTICUM I (3) Supervised experience in educational, vocational and personal counseling. Prerequisites: 70.430 plus consent of the department. Fall, Spring, Summer. Credit will be granted for this course upon completion of Psychology 646 or Psychology 635-636.
- 70.646 (2001.646) COUNSELING PRACTICUM II (3) Field experience in educational, vocational and personal counseling. Prerequisites: 70.645 plus consent of the department. Fall, Spring.

- 70.651 (2001.651) PRACTICUM IN SCHOOL/ CLINICAL PSYCHOLOGY (3) Provides an opportunity to participate in diagnostic, remedial and therapeutic planning as well as follow-up studies under supervision of certified psychologists. Prerequisites: 70.520, 70.591, 70.592. M.A. Candidate in School or Clinical Concentration. Consent of Coordinator. Fall.
- 70.652 (2001.652) INTERNSHIP IN SCHOOL/ CLINICAL PSYCHOLOGY (3) Each student must he a full-time student during the semester he enrolls in this course, typically the last semester of work. The student will be placed on internship in a school or clinic depending upon his specific orientation. He will participate in the complete workings of
- that agency under the direct supervision of a practicing certified psychologist. Prerequisite: 70.651. M.A. Candidate in School or Clinical Concentration. Consent of Coordinator. Spring.
- 70.690 (2001.690) SEMINAR IN SCHOOL/CLINI-CAL PSYCHOLOGY (3) Consideration of current practices, trends and evaluative techniques in School or Clinical Psychology. Prerequisite: Consent of coordinator. Fall. Open only to M.A. candidates in the School Psychology Program.
- 70.699 (2001.699) THESIS (3) Optional for students in Master of Arts for School Psychologists program. Required for students in Master's of Arts in General Psychology.



### Social Sciences

Coordinator: JOSEPH A. FALCO

This is an interdepartmental major made up of the Department of Economics and Political Science, the Department of Geography, the Department of History, and the Department of Sociology and Anthropology. The program is administered by a Committee composed of a representative from each discipline of the social sciences. The members of the Committee are: Joseph A. Falco, Professor of History, Chairman of the Committee and Coordinator of the Social Science Program; David Firman, Professor of Geography; Irwin Goldberg, Professor and Chairman, Department of Sociology and Anthropology; Herbert D. Andrews, Professor of History; Henry N. Sanborn, Professor of Economics.

The Program is designed for those students who do not wish to be confined to a major in a single social science discipline, but are interested in a broad education, transcending traditional department boundaries. It is useful for those students who plan to enter graduate school for an advanced degree in one of the social sciences; for those students who plan to enter professional schools for a degree in law, social service, or a phase of law enforcement; for those students who seek a broad background in preparation for employment in business and industry, or with a governmental agency. It is particularly designed for students planning to teach social studies at the secondary school level.

The major offers the student the choice of two distinct social science programs: a social science major in liberal arts or a social science major in secondary school teaching.

The requirements for the Social Science Major in Liberal Arts are 66 credit hours as follows: Economics: 24.101 (2204.101) and 102 (6 hours); Geography: 34.101 (2206.101) or 102, and one upper division course depending on the interest of the student (6 hours); History: 40.241 (2205.241), 242 (6 hours); and 40.145 (2205.145), 146 (6 hours); Political Science: 68.101 (2207.101), 103, 107, 137, 207 — any two courses (6 hours); Sociology and Anthropology: 80.101 (2299.101) and 10.207 (2202.207) (6 hours); Plus: 30 hours of upper division courses selected from any of the social sciences with a minimum of 9 hours in each of three disciplines selected. Twenty-four upper division credits will be earned at Towson.

The requirements for the Social Science Major in Secondary Teaching are 54 credit hours as follows: Economics: 24.101 (2204.101) and 102 (6 hours); Geography: 34.101 (2206.101) or 102, and one upper divison course depending on the interest of the student (6 hours); History: 40.241 (2205.241), 242 (6 hours); and 40.145 (2205.145), 146 (6 hours); Plus 6 hours in lower or upper division history electives to meet state certification requirements; Political Science: 68.101 (2207.101), 103, 107, 137, 207 — any two courses (6 hours); Sociology and Anthropology: 80.101 (2299.101) and 10.207 (2202.207) (6 hours); Plus 12 hours upper division electives to be distributed among the various social sciences. It is expected the upper division courses will be taken at Towson.

#### Transfer Students:

It is expected that all transfer students in the Social Science Program will earn at Towson State College a minimum of one-half the total number of credit hours required for the major.

### Degree Programs:

A student may earn a Bachelor of Science or a Bachelor of Arts degree in secondary education, a Bachelor of Science or a Bachelor of Arts degree in Liberal Arts. In either program the Bachelor of Arts degree requires a foreign language. The language requirement is met by completing the intermediate course or its equivalent of a modern foreign language.

# Sociology and Anthropology

Professors: HOJJATI, KANDEL, KRANZLER, TOLAND, GOLDBERG (Chairman)

Associate Professors: LEONS, STANLEY

Assistant Professors: FISHER, SCHEPER, SMITH, SEDLACK, WOLF

Instructors: COCKEY, FARIS, JONES, ROTHSTEIN

The Purpose of the major in Sociology and Anthropology is to acquaint the student with the methods and perspectives of these disciplines, to help him understand the society in which he lives, and to prepare him for graduate study in either Sociology or Anthropology.

### Requirements for the Sociology Major

Students may choose one of two concentrations offered by the Department.

### Concentration in Sociology

Introduction to Sociology (80.101); Behavioral Statistics (70.111) or Basic Statistics (50.231); Sociological Theory (80.407); Research Methods (80.495); and eighteen additional hours of elective courses offered by the Department at least twelve of which must be in courses at the 300 or 400 level. At least twelve of the required thirty credits must be taken in residence at Towson.

### Concentration in Anthropology

Cultural Anthropology (10.207); Human Evolution and Prehistory (10.208); Behavioral Statistics (70.111) or Basic Statistics (50.231); Anthropological Theory (10.401); and eighteen additional hours of elective courses of which no more than six may be in Sociology and at least twelve of which must be in courses at the 300 or 400 level. At least twelve of the required credits must be taken in residence at Towson.

Research Methods (80.495) is strongly recommended. If taken, a total of ten credits may be selected from among courses in Sociology.

The following courses in linguistics may be credited toward the concentration: Comparative Grammar (30.322); Historical Linguistics (30.325); and Structural Linguistics (30.327).

### SOCIOLOGY COURSES (SOCI)

COMMENCING WITH THE 1976-77 ACADEMIC YEAR, THE CURRENT ALPHABETICAL DESIGNATION "SOCI" WILL BE REPLACED BY A NUMERIC CODE OF 2299.

### Lower Division — Undergraduate

- 80.101 (2299.101) INTRODUCTION TO SOCIOL-OGY (3) Sociological concepts, theories, methods; a study of society and culture; the influence of the social environment on individual behavior.
- 80.203 (2299.203) THE FAMILY (3) The family as the basic group in human societies; its development; its relation to other social institutions; the family in modern industrial societies. Prerequisite: SOCI 80.101.
- 80.231 (2299.231) SOCIAL PROBLEMS (3) Problems in social relations created by the organization of society, exploration of alternative means of achieving social goals. Prerequisites: 80.101.
- 80.241 (2299.241) BLACKS IN AMERICA: MYTHS AND REALITY (3) Focus on prevailing myths regarding black society, the reasons why such myths have developed, and the reality which contradicts these myths. Prerequisites: SOCI 80.101.

### Upper Division — Undergraduate and Graduate

- 80.303 (2299.303) SOCIAL WELFARE (3) Sociological analysis of social welfare institutions and the functions they perform within modern societies. Prerequisite: SOCI 80.101.
- 80.311 (2299.311) SOCIOLOGY OF AGING (3) Examination of social factors in aging from the viewpoint of the individual, the group and society; socialization process and old

- age, identity and social roles, loneliness and alienation; demographic aspects of aging; societal definitions, norms, values, dilemmas, and responses to the aging; evaluation of research in social gerontology. Prerequisite: SOCI 80.101.
- 80.342 (2299.342) SOCIAL STRATIFICATION (3)
  The nature of social stratification; relationship of social mobility to social organization; social class structure in traditional and dynamic societies. Prerequisite: SOCI 80.101.
- 80.343 (2299.343) SOCIAL CHANGE (3) A sociological analysis of the sources, processes and consequences of social change. Prerequisite: SOCI 80.101.
- 80.344 (2299.344) URBAN SOCIOLOGY (3) Survey of the theoretical and sociological conceptualizations of modern Western industrial cities. Prerequisite: SOCI 80.101.
- 80.345 (2299.345) ORGANIZATIONS (3) Structure and functioning of large scale organizations; formal and informal aspects of bureaucracies in business, government, politics, education and other institutional spheres of society. Prerequisite: SOCI 80.101.
- 80.347 (2299.347) COMMUNITY ORGANIZATION (3) The organization of the community as a vehicle for identifying and meeting human needs; processes and techniques of community planning and development, traditional and contemporary. Prerequisite: SOCI 80.101.
- 80.349 (2299.349) POLITICAL SOCIOLOGY (3)
  Contemporary relevance of the fundamental ideas regarding the relationship of the social and political systems; the signifiance of social and political democratization; class struggles and revolution; the influence of government bureaucracy. Prerequisite: SOCI 80.101.
- 80.357 (2299.357) IDEOLOGY, POWER AND SO-CIETY (3) Influence of the structure of society and its political conflicts on the ideas which men hold and in the name of which they struggle: the social and political sources of social movements and belief systems, the industrial society and its influence on the nature of masses and elites; the socio-political role of intellectuals. Prerequisite: SOCI 80.101.
- 80.363 (2299.363) INDIVIDUAL AND SOCIETY (3)
  A social psychological approach to the interrelationships of the individual and his social and cultural environment; behavioral characteristics resulting from social experience.
  Prerequisite: SOCI 80.101.
- 80.381 (2299.381) MINORITY GROUPS (3) An examination of intergroup life as an aspect of society; conflicts between races, ethnic groups, and minorities; prejudice, segregation and integration. Prerequisite: SOCI 80.101.
- 80.383 (2299.383) CRIMINOLOGY (3) The nature of crime; factors underlying criminal

- behavior; police, courts, law, and correctional institutions. Prerequisite: 80.101.
- 80.386 (2299.386) JUVENILE DELINQUENCY (3)
  A study of delinquency; the process of socialization and delinquent behavior in society; prevention and treatment of delinquency.
  Prerequisite: SOCI 80.101.
- 80.392 (2299.392) DEMOGRAPHY (3) Social, economic, and political problems related to changes, distribution and movement of population; analysis of contemporary population trends in the U.S. and the world. Prerequisite: SOCI 80.101.
- 80.401 (2299.401) MEDICAL SOCIOLOGY (3) A study of social and cultural perspectives on illness; demographic trends; the health professions; and institutions for the delivery of health care services. Prerequisite: SOCI 80.101.
- 80.403 (2299.403) COLLECTIVE BEHAVIOR (3) Study of unorganized and organizing groups and their impact on society: crowds, mobs, riots and other processes of disruptive and constructive change. Prerequisite: 80.101.
- 80.406 (2299.406) SOCIOLOGY OF EDUCATION
  (3) Sociological analysis of education as a basic social institution; formal and informal organizations of education systems; relationship to socialization; major social trends in education; concept of academic freedom. Prerequisite: SOCI 80.101.
- 80.407 (2299.407) SOCIOLOGICAL THEORY (3)
  Major systems of sociological theory; the
  works, assumptions, and implications of major European and American schools. Prerequisites: Junior Standing; SOCI 80.101; 9 additional hours of SOCI; and consent of
  chairman.
- 80.408 (2299.408) ADVANCED SOCIOLOGICAL THEORY (3) Critical analysis of emerging theoretical schools. Attention will be given to contemporary theoretical problems. Prerequisites: 80.101 and 80.407.
- 80.457 (2299.457) SOCIAL DEVIANCE (3) Deviance as an aspect of social living; the problem of understanding conformity and deviance; identification of deviants; society's response to deviant behavior. Prerequisite: SOCI 80.101.
- 80.470-479 (2299.470-479) SPECIAL TOPICS IN SOCIOLOGY (3) An examination of current topics in Sociology. The content of the course will depend upon mutual faculty and student interest. Prerequisite: SOCI 80.101.
- 80.485 (2299.485) SEMINAR IN SOCIOLOGY (3) Exploring and analyzing major areas of sociology. For senior students with a major in sociology. Prerequisite: SOCI 80.407 and consent of instructor.
- 80.495 (2299.495) RESEARCH METHODS (4) A consideration of methodology of sociological research; the various steps in conducting research projects, from statement of the problem to final analysis of data. Prerequi-

sites: SOCI 80.101; 9 additional hours of SOCI; either PSYC 70.111 or MATH 50.231; and consent of chairman.

80.499 (2299.499) INDEPENDENT RESEARCH (3)

Supervised research and sociological investigation involving library and/or field experiences, and culminating in a written report. Prerequisite: SOCI 80.495 and SOCI 80.407 and consent of instructor.

### ANTHROPOLOGY COURSES (ANTH)

COMMENCING WITH THE 1976-77 ACADEMIC YEAR, THE CURRENT ALPHABETICAL DESIGNATION "ANTH" WILL BE REPLACED BY A NUMERIC CODE OF 2202.

### Lower Division — Undergraduate

10.207 (2202.207) CULTURAL ANTHROPOLOGY
(3) Introduction to social and cultural anthropology; cultural theory, social structure, human ecology, language and culture, technology, religion, art, and literature.

10.208 (2202.208) HUMAN EVOLUTION AND PRE-

HISTORY (3) The study of man: his biological and cultural development through time. This course is equivalent to Anthropology 105 previously offered. Students who have had Anthropology 105 may not receive credit for Anthropology 208 but may take Anthropology 207.

### Upper Division — Undergraduate and Graduate

- 10.321 (2202.321) SEX ROLES IN CROSS CULTURAL PERSPECTIVE (3) Materials from a variety of cultures will be used to illustrate and analyze the roles of women and men within the major institutional aspects the family, economics, politics, and religion. Particular attention will be devoted to the similarities and differences in sex role patterns within and between the cultures. Prerequisites: 80.101 or 10.207.
- 10.346 (2202.346) POLITICAL ANTHROPOLOGY (3) Comparative political institutions and behavior among contemporary non-literate societies. Theoretical problems of social control, state and non-state systems, symbolic aspects of power, levels of political integration, and warfare. Prerequisite: ANTH 10.207.
- 10.364 (2202.364) RELIGION, MAGIC AND WITCH-CRAFT (3) The world view, beliefs and rituals of selected non-literate peoples considered with reference to religion as a universal category of human culture. Prerequisite: ANTH 10.207.
- 10.365 (2202.365) ETHNOLOGY OF NORTH AMERICA (3) A comparative description and interpretation of native American Indian culture. Prerequisite: ANTH 10.207.
- 10.366 (2202.366) ETHNOLOGY OF SOUTH AMERICA (3) Survey of the native peoples of South America with emphasis on Pre-Columbian societies. Offered in alternate years. Prerequisite: ANTH 10.207.
- 10.367 (2202.367) ETHNOLOGY OF THE MIDDLE EAST (3) Survey of the Middle East as a culture area with emphasis on culture change. Prerequisite: ANTH 10.207.
- 10.377 (2202.377) SOCIETIES AND CULTURES OF LATIN AMERICA (3) An anthropological perspective will be brought to bear on contemporary Latin American cultures and societies from the standpoint of the community and as total national systems. Prerequisites: SOCI 80.101, ANTH 10.208 or ANTH 10.207.

- 10.381 (2202.381) ARCHAEOLOGICAL METHODS AND THEORY (3) Methods of excavating and recording archaeological data. Investigation of problems of current research interest. Prerequisite: ANTH 10.207.
- 10.383 (2202.383) NORTH AMERICAN ARCHAE-OLOGY (3) Regional survey of the prehistory of native North American cultures. Prerequisite: ANTH 10.207 or 10.208.
- 10.385 (2202.385) ARCHAEOLOGY OF THE AMERICAN SOUTHWEST (3) An examination of the evidence of prehistoric cultures of the Southwest: Anasazi, Hohokam, and Mongollon. Detailed description of the remains. Prerequisites: ANTH 10.207 or 10.208 and consent of instructor.
- 10.388 (2202.388) PEASANT CULTURES (3) The course will focus on the rural agricultural population of modern states; their traditional lifeways and the changes being wrought by modernization. Prerequisites: SOCI 80.101 or ANTH 10.207.
- 10.401 (2202.401) ANTHROPOLOGICAL THEORY (3) Survey of the theoretical contributions made by American, British and Continental anthropologists. Prerequisites: ANTH 10.207 and 9 hrs. of ANTH.
- 10.470-479 (2202.470-479) SPECIAL TOPICS IN ANTHROPOLOGY (3) An examination of current topics in Anthropology. The content of the course will depend upon mutual faculty and student interest. Prerequisites: ANTH 10.207.
- 10.499 (2202.499) INDEPENDENT RESEARCH (3)
  Supervised research and anthropological investigation leading to preparation of a research project or a supervised field experience. For senior students with a concentration in anthropology. Prerequisite: At least 12 credits in ANTH and consent of department chairperson.

### Theatre Arts

Professor: GILLESPIE

Associate Professors: BERMAN (Chairman), MANLOVE

Assistant Professor: BAKER Instructors: LOESCHKE, SIMS

Assistant Instructors: KLEBAN, MARCHIONE

The curriculum in the department is designed to provide the best possible learning and training for the student wishing to major in theatre arts. The program is designed to provide, in cooperation with other departments, a broad liberal education as well as specialized professional training with the emphasis placed upon skill as well as knowledge. The main emphasis is the creation of an artistic point of view on the part of the students.

### Major in Theater Arts

The major in theater arts is time consuming and physically demanding. Majors must be free to participate in theater activities evenings and weekends.

Participation in the college drama productions is a part of the educational program of theater arts majors. All theater majors must participate in production seminars each semester.

At the end of the sophomore year, students must be approved individually by the department each semester in order to continue in the program.

Students transferring from other institutions and planning to major in theatre arts at Towson are required to complete a minimum of 20 hours of theatre arts courses in residence at Towson.

### The Curriculum

Majors must take a minimum of 36 credit hours in theatre or dramatic literature, including the following required courses: 86.105, 86.106, 86.107, 86.108, 86.499, and at least 2 courses from the following: 86.411, 86.412, 86.413, 86.493, 86.494, 86.495, 86.496, 86.497, 86.498, 86.480, 86,481, 86.482 and a minimum of 8 to 10 additional elective hours in theatre to make a total of 36 credit hours. Each student will work out an individualized program in conjunction with a faculty advisor. All students are required to successfully participate in production seminar each semester.

### Curriculum for a Minor in Theatre Arts

Any 18 hours in theatre courses approved in advance, as a minor, by the director of theatre.

### THEATRE ARTS COURSES (THAR)

COMMENCING WITH THE 1976-77 ACADEMIC YEAR, THE CURRENT ALPHABETICAL DESIGNATION "THAR" WILL BE REPLACED BY A NUMERIC CODE OF 1007.

#### Service Division

86.027 (1007.027) THEATRE MANAGEMENT (0)
Organization and control of the business,
box office, house and publicity programs of
the theatre. Prerequisites: None — offered on
demand.

86.109 (1007.109) DRILL IN MOVEMENT FOR THE STAGE (1) Analysis of individual prob-

lems in movement for the stage, and drill in corrective exercises.

86.110 (1007.110) DRILL IN VOICE FOR THE STAGE (1) Analysis of individual problems in voice for the stage, and drill in corrective exercises.

### Lower Division — Undergraduate

- 86.103 (1007.103) INTRODUCTION TO THE THE-ATRE (3) Theatrical experience through study of the various types, styles, and production processes of the theatre. Theatre as a public art and its relationship to our culture.
- 86.105 (1007.105) THEATRE AND THE HUMANI-TIES I (3) History of the Theatre and its relation to the Arts and Sciences. Greek to Medieval period. Meets three periods for lecture and one period for discussion.
- 86.106 (1007.106) THEATRE AND THE HUMANI-TIES II (3) History of the Theatre and its relation to the Arts and Sciences. Renaissance period. Meets three periods for lecture and one period for discussion.
- 86.107 (1007.107) THEATRE AND THE HUMANI-TIES III (3) History of the Theatre and its relation to the Arts and Sciences. Age of Reason and Romantic period. Meets three periods for lecture and one period for discussion.
- 86.108 (1007.108) THEATRE AND THE HUMANI-TIES IV (3) History of the Theatre and its relation to the Arts and Sciences. The Modern World. Meets three periods for lecture and one period for discussion.
- 86.141 (1007.141) GRAPHIC TECHNIQUES FOR THE THEATRE (2) A course in the standard graphic practices of the draftsman. The emphasis will be on the reading and producing of working drawings, for lighting, costume, and scenic design.
- 86.143 (1007.143) VISUAL ELEMENTS IN THE-ATRE (3) An examination of visual elements in theatrical production to aid the designer, director, and actor to think in terms of visual metaphors for the stage.
- 86.201 (1007.201) TECHNIQUES IN THEATRE DESIGN (3) Practice in such techniques as drafting, elevation, drapery sketching, figure drawing, and rendering techniques to prepare a student to work in set or costume design.
- 86.211 (1007.211) THEATRE PRODUCTION (4)
  A survey of acting, directing, technical theatre techniques and resources for the school and community theatre. Students will be expected to participate in the production crews for the college plays. Prerequisite: 86.103.
- 86.221 (1007.221) ACTING I (3) Theory and practice of acting. The development of the actor's imagination and techniques through improvisations, pantomimes, exercises, and simple scenes.
- 86.222 (1007.222) ACTING II (3) Theory and practice of acting. Work in role analysis and

- character building. Prerequisites: 86.221 and consent of instructor.
- 86.231 (1007.231) MIME I (3) Basic techniques of the art of Mime. Exercise work in images and illusions. Three credit hours, four contact hours.
- 86.232 (1007.232) MIME II (3) Improvisations with images and illusions. Three credit hours, four contact hours.
- 86.241 (1007.241) COSTUME HISTORY AND DE-SIGN: EGYPT TO RENAISSANCE (4) Study of costume from the ancient Egyptian civilization to the Renaissance. Costume design and construction. Work on crews for college drama productions.
- 86.242 (1007.242) COSTUME HISTORY AND DE-SIGN: ELIZABETHAN TO 1940 (4) Study of costume from the Elizabethan to 1940. Costume design and construction. Work on costume crews for college drama productions.
- 86.245 (1007.245) STAGE MAKEUP I (2) Survey of materials and study of theories and techniques of stage makeup. Class meets for two hours per week.
- 86.246 (1007.246) STAGE MAKEUP II (2) Advanced stage makeup using materials such as home latex, rubber, collodion, and mask making and doing complete detailed character makeups.
- 86.251 (1007.251) STAGECRAFT (3) Technical aspects of play production including scene construction, scene painting, property building and stage lighting. (Work on technical crews for college drama productions required.)
- 86.261 (1007.261) ACTING FOR MUSICAL THE-ATRE I (3) An introduction to the acting problems inherent in Musical Theatre performance. Theory and practice. The development of the actor's awareness, imagination, and technique through lectures, improvisations, exercises, and ensemble scenes. Prerequisite: 86.221 or consent of instructor.
- 86.262 (1007.262) ACTING FOR MUSICAL THEATRE II (3) Theory and practice of acting in a musical theatre situation. Work in scene and role analysis, character development, and personal performing technique. Prerequisite: 86.261 and consent of instructor.
- 86.285 (1007.285) BEGINNING THEATRE WORK-SHOP (6) Open to students who have not had performance courses in the theatre. Course will provide intensive experience in acting, mime, voice production, directing, and musical theatre. Students will participate in, observe, and, when appropriate, assist college faculty with performance and technical theatre activities.

### Upper Division — Undergraduate and Graduate

86.307 (1007.307) THEATRE ARTS FOR CHIL-DREN (3) Theory and techniques of playmaking for children. Lecture, demonstration, and participation in pantomime, improvisation, and story dramatization.

- 86.321 (1007.321) ACTING III (3) An examination of the problems of the actor in Shake-spearean roles. Both theory and practice of Shakespearean acting are dealt with. Prerequisites: 86.222, limited to majors and consent of instructor.
- 86.331 (1007.331) PLAY DIRECTING I (3) Fundamentals of play directing through exercises, directorial play analysis, and projects in directing short scenes. Prerequisites: 86.103 or 86.105 and 86.221 or consent of instructor.
- 86.355 (1007.355) STAGE LIGHTING (3) Theory of light and electricity with emphasis on the planning of light plots. Aesthetic effort of stage lighting and problems of lighting small stages with minimum equipment. Prerequisite: 86.251 or consent of instructor.
- 86.361 (1007.361) DESIGN FOR THE STAGE (3) Theory and practice of designing scenery for the stage. Includes a study of the relationship of the set design to the script and other elements of production; and examination of research techniques in preparation for scene designing and practice in designing scenery for many styles and types of drama. Prerequisites: 86.251 or consent of instructor.
- 86.371 (1007.371) THEATRE GAMES I (1) Exercises in acting designed to develop the individual's creativity and encourage work on personal acting techniques. Prerequisite: 86.221.
- 86.372 (1007.372) THEATRE GAMES II (1) Exercises in acting designed to develop the individual's creativity and encourage work on personal acting technique. Prerequisite: 86.221.
- 86.401 (1007.401) THEATRE AS A PROFESSION (1) Working conditions, unions, employment opportunities in the theatre. Preparation of professional credentials, audition material, etc. Prerequisite: Theatre Arts major or consent of instructor.
- 86.407 (1007.407) THEATRE ARTS FOR CHIL-DREN — ADVANCED (2) Practical experience in directing and guiding Theatre Arts with children in a classroom or other arranged situation. Prerequisite: 86.307—Theatre Arts for Children.
- 86.421 (1007.421) PLAY DIRECTING II: THE CONTEMPORARY PLAY (3) Preparation techniques and directorial approaches to contemporary drama. Individual directing projects of scenes from representative contemporary dramas. Prerequisite: 86.331 or consent of instructor.
- 86.431 (1007.431) DIRECTING THE PERIOD PLAY (3) Research techniques and directorial approaches to period drama. Individual directing projects of scenes from representative period dramas. Prerequisite: 86.331 or consent of instructor.
- 86.441 (1007.441) COSTUME DESIGN (3) Study

- of the theories, principles, of costume design and practice in designing costumes for the stage. Including a study of the relationship of color, texture, and historical period to the script and style of a theatrical production. Also practical use of costume research techniques in preparing designs. Experience in designing costumes for many historical periods and styles of plays.
- 86.471 (1007.471) PRODUCING STORY THEATRE IN THE SCHOOLS (3 credits undergraduate; 2 credits graduate) The history, theory, and techniques of story theatre. The application of story theatre to all levels of education, with emphasis on the secondary schools. Prerequisite: One Speech or Drama course plus teaching experience, or consent of the instructor.
- 86.473 (1007.473) WORKSHOP IN STORY THEA-TRE (3 credits — undergraduate; 2 credits — graduate) Practical experience in producing story theatre. Each student will direct at least one story theatre production and perform in at least one story theatre production. Prerequisite: The workshop should only be taken concurrently with 86.471.
- 86.475 (1007.475) USING THEATRE GAMES
  TECHNIQUES IN THE SCHOOLS (3 credits
   undergraduate; 2 credits graduate)
  The theory and techniques of theatre games.
  The application of the problem-solving techniques of theatre games to all levels of education, with emphasis on the secondary schools. Prerequisite: One Speech or Drama course plus teaching experience, or consent of the instructor.
- 86.477 (1007.477) WORKSHOP IN THEATRE GAMES TECHNIQUES (3 credits undergraduate; 2 credits graduate) Practical experience in utilizing theatre games techniques in rehearsal and performance. Each student will develop, rehearse, and produce a project and will also perform in at least one other project. Prerequisite: The workshop should only be taken concurrently with 86.475.
- 86.485 (1007.485) ADVANCED THEATRE WORK-SHOP FOR SECONDARY SCHOOL TEACH-ERS (6) Open to graduate students and undergraduate students of junior and senior standing who have had courses in theatre and/or practical experience in theatre. May be taken for graduate or undergraduate credit. Students will work with high school students in theatre projects and will have opportunities to design and/or direct. Interested applicants should contact the Director of the Summer Theatre Workshop at the earliest opportunity, preferably June 1.
- 86.486 (1007.486) WORKSHOP IN THEATRE PRO-DUCTION FOR SECONDARY SCHOOL TEACHERS (6) Course is open to graduate students and undergraduate students of junior or senior standing who wish to gain practical experience in working with the technical theatre production elements of sec-

- ondary school theatre. May be taken for graduate or undergraduate credit. Students will work with the College Theatre Department's costume and scenic design staff in conjunction with the Theatre Workshop for High School Students. Prerequisite: Upper division or graduate standing.
- 86.487 (1007.487) PROFESSIONAL THEATRE SEMINAR (12) A semester's internship in a resident theatre company. For majors only. Prerequisite: Approval of director of theatre.
- 86.493 (1007.493) PROBLEMS IN THEATRE I (1-3) Independent study of an academic or creative nature. For majors only. Prerequisites: Approval of plan of study by instructor and director of theatre.
- 86.494 (1007.494) PROBLEMS IN THEATRE II (1-3) Independent study of an academic or creative nature. For majors only. Prerequisites: Approval of plan of study by instructor and director of theatre.
- 86.495 (1007.495) PROBLEMS IN THEATRE III (1-3) Independent study of an academic or creative nature. For majors only. Prerequisites: Approval of plan of study by instructor and director of theatre.
- 86.496 (1007.496) PROBLEMS IN THEATRE IV (1-3) Independent study of an academic or creative nature. For majors only. Prerequisites: Approval of plan of study by instructor and director of theatre.
- 86.497 (1007.497) PROBLEMS IN THEATRE V (1-3) Independent study of an academic or creative nature. For majors only. Prerequisites: Approval of plan of study by instructor and director of theatre.
- 86.498 (1007.498) PROBLEMS IN THEATRE VI (1-3) Independent study of an academic or creative nature. For majors only. Prerequisites: Approval of plan of study by instructor and director of theatre.
- 86.411 (1007.411) PROBLEMS IN ACTING OR DI-RECTING I (1-3) An upper level course designed to deal with the student's acting or

- directing problems on an advanced level. Prerequisites: 86.221, 86.222, 86.231.
- 86.412 (1007.412) PROBLEMS IN ACTING OR DIRECTING II (1-3) An upper level course designed to deal with the student's acting or directing problems on an advanced level. Prerequisites: 86.221, 86.222, 86.231.
- 86.413 (1007.413) PROBLEMS IN ACTING OR DIRECTING III (1-3) An upper level course designed to deal with the student's acting or directing problems on an advanced level. Prerequisites: 86.221, 86.222, 86.231.
- 86.480 (1007.480) PROBLEMS IN DESIGN AND TECHNICAL THEATRE I (1-3) An advanced course enabling the student to derive credit for special problems in the area of Technical Theatre. Prerequisites: 86.201, 86.241, 86.251.
- 86.481 (1007.481) PROBLEMS IN DESIGN AND TECHNICAL THEATRE II (1-3) An advanced course enabling the student to derive credit for special problems in the area of Technical Theatre. Prerequisite: 86.201, 86.241, 86.251.
- 86.482 (1007.482) PROBLEMS IN DESIGN AND TECHNICAL THEATRE III (1-3) An advanced course enabling the student to derive credit for special problems in the area of Technical Theatre. Prerequisite: 86.201, 86.241, 86.251.
- 86.499 (1007.499) SPECIAL PROJECT IN THE-ATRE RESEARCH (3) Seminar to demonstrate the student's proficiency in an area of theatre research agreed upon by the student and his advisor. Projects may be undertaken in the following areas: Theatre History; Dramatic Structure and Criticism; Directing; Stage, Lighting and Costume Design. All projects must entail research and the reportage of such research in the form of a thesis paper, which must adhere to high standards of scholarly writing. Prerequisites: Senior major or graduate standing and 86.105, 86.106, 86.107, 86.108.

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# Academic Calendar 1975-1976

Fall Semeser 1975

September 2, Tuesday Residence Halls open

September 2, Tuesday Registration and Orientation for New Students not

previously registered

September 3, 4, Wednesday,

Thursday

Complete Registration and Change of Schedule for pre-registered continuing students—late registra-

tion by permission of the Registrar

September 5, Friday Classes begin

September 8 thru 12 Monday thru Friday Schedule changes accepted

October 24, Friday Mid-Semester

November 14, Friday Last day to drop a course

November 26, Wednesday Thanksgiving Holiday after last class

December 1, Monday Classes resume

December 12, Friday Last day of classes

December 15, Monday Final examinations begin

December 22, Monday Last day of examinations and semester

January Session 1976

January 5, Monday Session begins
January 30, Friday Session ends

Spring Semester 1976

February 2, Monday Residence Halls open

February 2, Monday Registration and Orientation for New Students not

previously registered

February 3, 4, Tuesday, Complete Registration and Change of Schedule for Wednesday pre-registered continuing students — late registra-

tion by permission of the Registrar

February 5, Thursday Classes begin

February 6 thru 12 Schedule changes accepted Friday thru Thursday

March 26, Friday Mid-Semester

April 9, Friday Spring vaction begins after last class

April 19, Monday Classes resume

April 23, Friday Last day to drop a course

May 19, Wednesday Last day of classes
May 20, Thursday Reading Day

May 21, Friday Final examinations begin

May 28, Friday Last day of examinations and semester

June 6, Sunday Commencement

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TELECOMMUNICATIONS: The college is scheduled to convert to the Centrex telephone system approximately August or September of 1975. Until that time the college telephone number will be 823-7500 which will connect you with the switchboard. After conversion to the Centrex system, you should consult the white pages of the telephone directory under Maryland State Government, State Colleges and Universities, for the number of the department you wish to contact. Until the date of cutover, the switchboard hours will be Monday through Friday, 7:30 a.m. to 6:00 p.m., Saturdays and Sundays, closed.

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BUSINESS

CURRICULUM AND INSTRUCTION

GENERAL INFORMATION HOUSING OF STUDENTS SCHOLARSHIPS AND FINANCIAL AIDS STUDENT AFFAIRS AND WELFARE TRANSCRIPTS, ACADEMIC RECORDS, REGISTRATION Vice-President, Business and Finance Vice-President for Academic Affairs and Dean of the College President Director of Residence Halls Director of Financial Aid Vice-President for Student Affairs

Director of Admissions

Registrar

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